

# EV charging point installation rollout - Scrutiny Board 3

Wednesday 8th November 2023

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**Shamala Evans-Gadgil**

EV Infrastructure Programme  
Manager

Coventry City Council

Shamala.evans-Gadgil@coventry.gov.uk

# EV charging point installation rollout - Scrutiny Board 3

## Who am I

- Shamala Evans-Gadgil: 4th year part time PGR, with a Civil Engineering and Contract Management background
- Consultant to Coventry City Council as EV Infrastructure Programme Manager on Innovation Projects in Transport and Innovation Division.
- Project Lead for:
  - ◇ Electric Vehicles Charging Infrastructure Strategy
  - ◇ All Electric Bus City
  - ◇ Renewable Energy and Battery storage
- Chair of TTF Electric Vehicle Charging Infrastructure Working Group
- Chair of the IET Public Sector Committee 2023

# Why

# Strategic context

	Organisations	Environmental targets	Key strategies
<b>International</b>	Various Governments	<ul style="list-style-type: none"> <li>Limit global temperature rises to 2 degrees Celsius (v pre-industrial levels)</li> </ul>	<ul style="list-style-type: none"> <li>Paris Agreement</li> <li>UN Sustainable Development Goals</li> </ul>
<b>National</b>	Department for Transport	<ul style="list-style-type: none"> <li>Net zero by 2050</li> <li>50% of city centre journeys to be walking or cycling by 2030</li> </ul>	<ul style="list-style-type: none"> <li>Decarbonising Transport</li> <li>Gear Change (Walking and Cycling strategy)</li> <li>Bus Back Better (Bus strategy)</li> <li>10 Point Plan for a Green Industrial Revolution</li> </ul>
<b>Regional</b>	Transport for West Midlands/ Midlands Connect	<ul style="list-style-type: none"> <li>Net zero by 2041</li> </ul>	<ul style="list-style-type: none"> <li>#WM2041 (Climate Change Strategy)</li> <li>West Midlands Local Transport Plan (to be finalised Summer 2022)</li> </ul>
<b>Local</b>	Coventry City Council	New Climate Change Strategy will set an interim-target of reducing emissions by 55% (relative to 1990 level) by 2030	<ul style="list-style-type: none"> <li>Climate Change Strategy (in development)</li> <li>Transport Strategy (adopted December 2022)</li> </ul>

# Coventry's emerging Transport Strategy

- Built around four overarching objectives – informed by existing international, national and regional strategies
- Achieving these requires a significant change to the way we travel:
  - Away from car dependency – draft strategy is explicit that in future most people will not need to own a car to access the services they need
  - Towards walking, cycling and public transport first
- Main areas of activity:
  - 'Step change' in the city's public transport system (including Very Light Rail)
  - Much better infrastructure for walking and cycling
  - Targeted investment in the road network (i.e. not aimed at simply creating capacity for more cars)
  - Widespread electrification (of public and private transport)
  - Changes to the way we transport freight
  - Encouraging 'behaviour change'

1. Supporting the city's economic recovery and enabling long-term growth

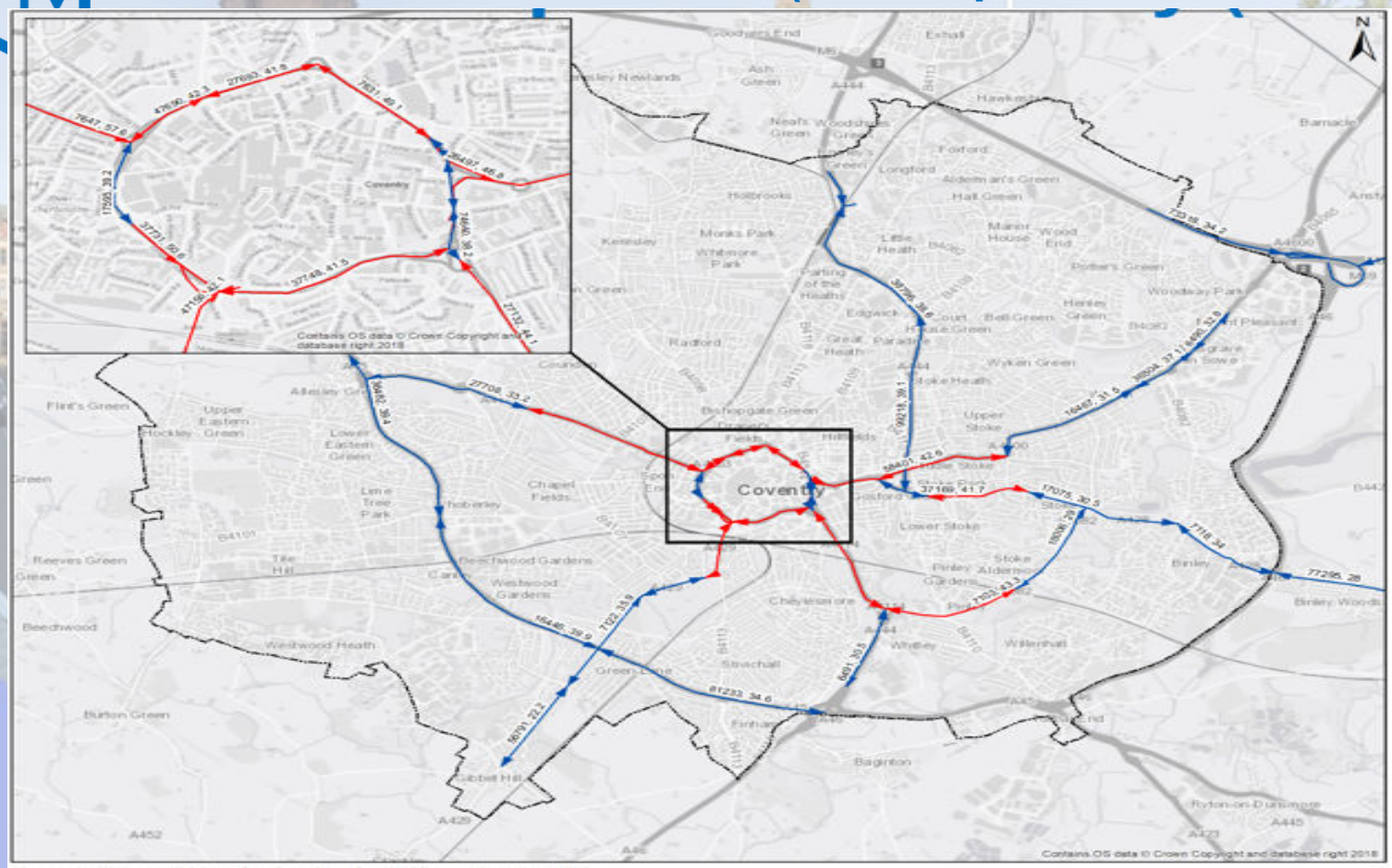
2. Delivering a sustainable, low carbon transport system

3. Ensuring equality of opportunity

4. Maximising health and wellbeing



# Modelled NO2 exceedances (2021- updated AQ modelling)

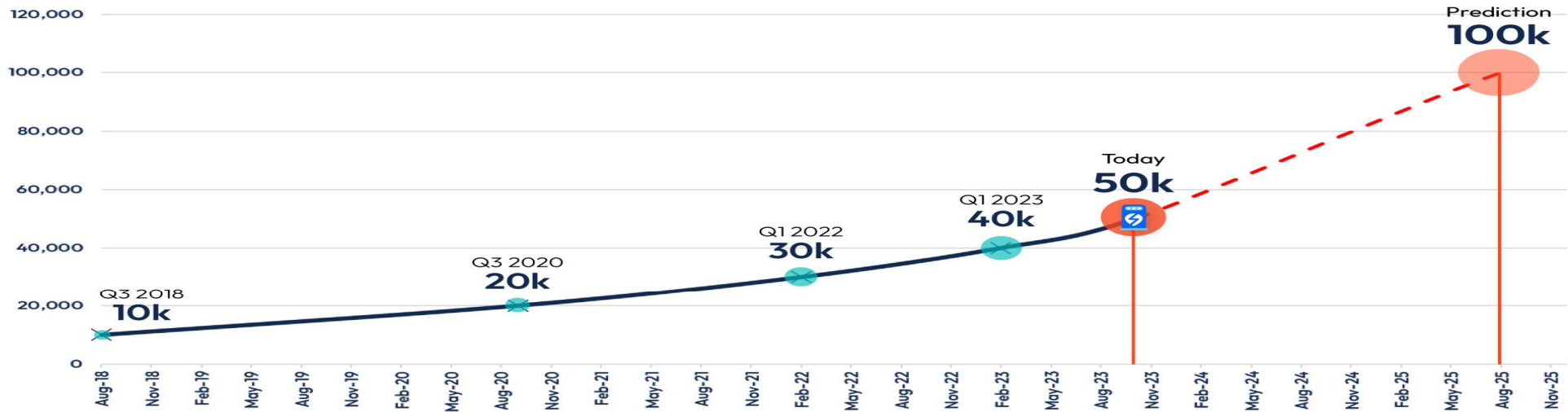


# Developing an EV culture

- Central Government Funding
- Private sector investment
- Holistic approach of extending EV charging infrastructure to the wider city
- Access to Charge points in the City of Coventry for Electric Taxi's [Hackney carriages]
- Promote increase use of EV cars through workplace charging, home charging and onstreet charging
- Improve Air Quality
- Future Proofing for Emerging Technology
- Combination of VLR, all electric buses and electric taxi's making a fully electric public transport system in Coventry from 2025

# Dft Official Statistics: Electric vehicle charging device statistics: October 2023

**UK milestone: 50,000 EV charge points**  
October 2023



Source: Charge devices on Zapmap database, October 2023.



[www.coventry.gov.uk](http://www.coventry.gov.uk)



# How

# EV charging point installation rollout - Scrutiny Board 3

## Background

The first chargers were installed in September 2018

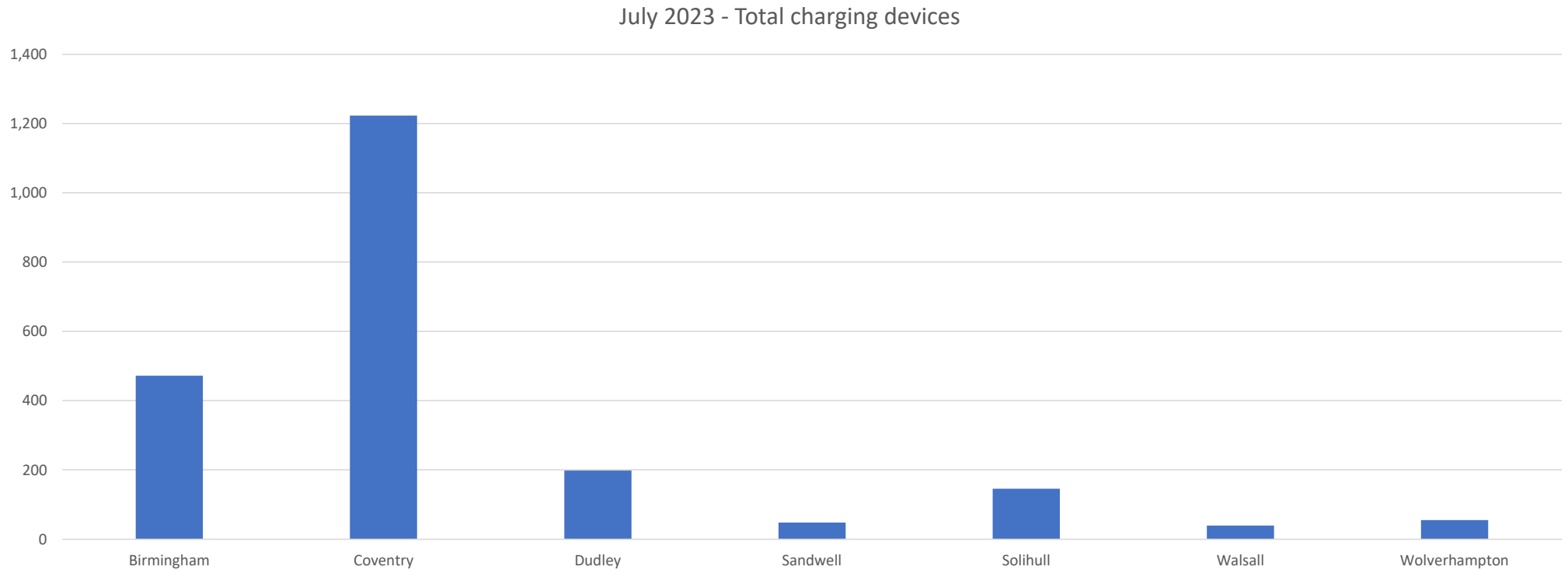
In Coventry, there are:

- 39x 50 kW chargers delivered by ESB
- 35x EO Chargers at 2 multi-storey car parks
- 373x slow-fast chargers delivered by Charg.y
- 510x standard-fast single and dual socket chargers delivered by Connected Kerb Ltd

These chargers have been delivered using Office for Zero Emission Vehicle funding, chargepoint operator investment and CCC investment

Many people in Coventry are reliant upon on-street chargepoints for routine charging needs, therefore it is important to have a comprehensive and reliable charging network

# Dft Official Statistics: Electric vehicle charging device statistics: July 2023



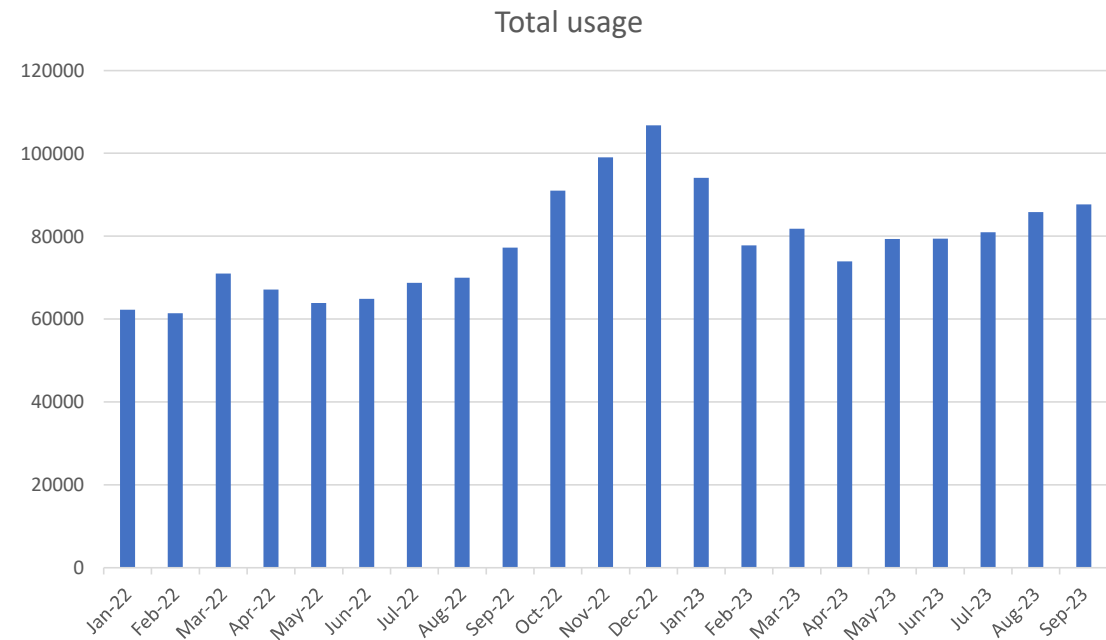
Source: <https://www.gov.uk/government/statistics/electric-vehicle-charging-device-statistics-july-2023>

# EV Charging Strategy

- Electric Vehicle Charging Infrastructure Strategy is currently being developed by officers, with a finished draft expected in late October / early November
- Cenex have been commissioned to undertake some modelling and calculations on the current status, future projections and the benefits associated with this
- The Strategy will include the Council's approach to delivering chargepoints, implementing TROs on parking bays and other policies

# Combined cgarger usage graph

- This graph shows usage from January 2022 to September 2023 of both the rapid and residential chargers combined.
- Vast amounts of energy have been dispensed through the chargers, with recent months topping 80,000 kWh.
- A peak in usage was seen in late 2022/early 2023, but usage is largely consistent



# Cenex Outputs – Electric Vehicles (current)

- The work that Cenex have completed included the below table on the current status of Battery and Plug-in Electric Vehicle Penetration in Coventry and compares it against the wider West Midlands Combined Authority area and the UK.
- This table shows that Coventry is ahead of the WMCA area in terms of electric vehicle adoption, but both are behind the UK average.

	Total Vehicles (Cars and LCVs)	Total BEVs (Cars and LCVs)	% cars and LCVs that are BEVs	Total other PiVs (Cars and LCVs)	% cars and LCVs that are other PiVs	Total EVs (Cars and LCVs)	% All cars and LCVs that are EVs
Coventry	157,697	1,597	1.01%	1,458	0.92%	3,055	<b>1.94%</b>
WMCA*	1,374,882	11,630	0.85%	6,699	0.48%	18,329	<b>1.33%</b>
UK	37,788,238	586,982	1.55%	393,359	1.04%	980,341	<b>2.59%</b>

# Coventry City Council

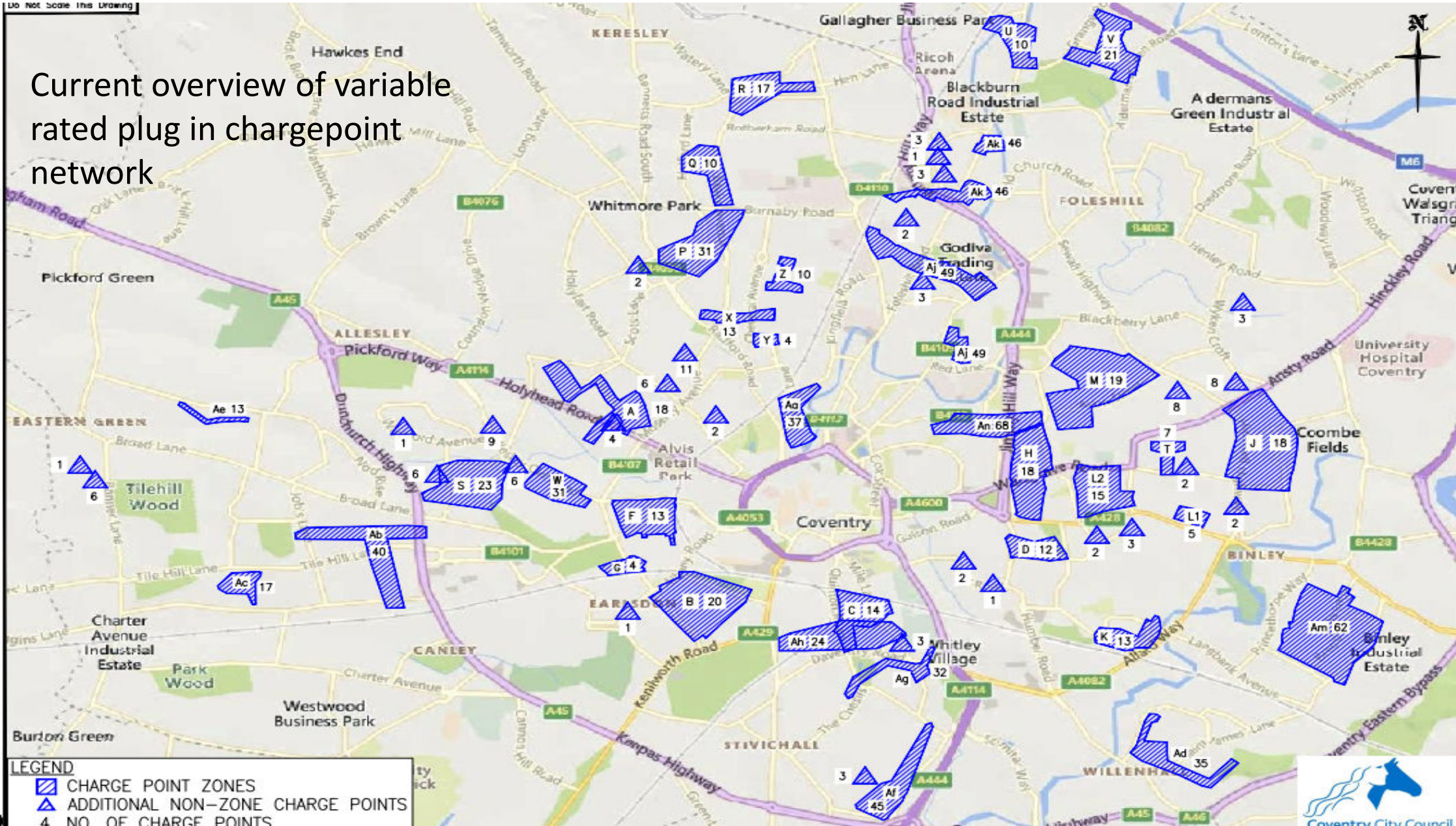
## Procurement of Charge Point Operator and OZEV grants



Coventry City operates four concession contracts, the latest signed in February 2023

- Coventry has one of the most comprehensive EV charging networks outside London, with 958 currently operational chargepoints (total of 1326 sockets) and additional 450 being made operational by April 2024, making a total of 2161 charging spaces available for electric vehicles to charge by mid 2024 .
- Workplace Charging - 44 fast chargers at Council's properties and Plug-in Coventry project to support charge point provision at business premises

# Current overview of variable rated plug in chargepoint network

Do not scale this drawing



**LEGEND**  
 CHARGE POINT ZONES  
 ADDITIONAL NON-ZONE CHARGE POINTS  
 4 NO. OF CHARGE POINTS





# On-street Residential Chargepoint Scheme [ORCS] [3.5kW, 7kW or 22kW]



## Consultation

consideration to earthing requirements



## Early consultation with local DNO

availability of power supply within existing LC

availability of power if feeder pillar required



## Ward Councilors



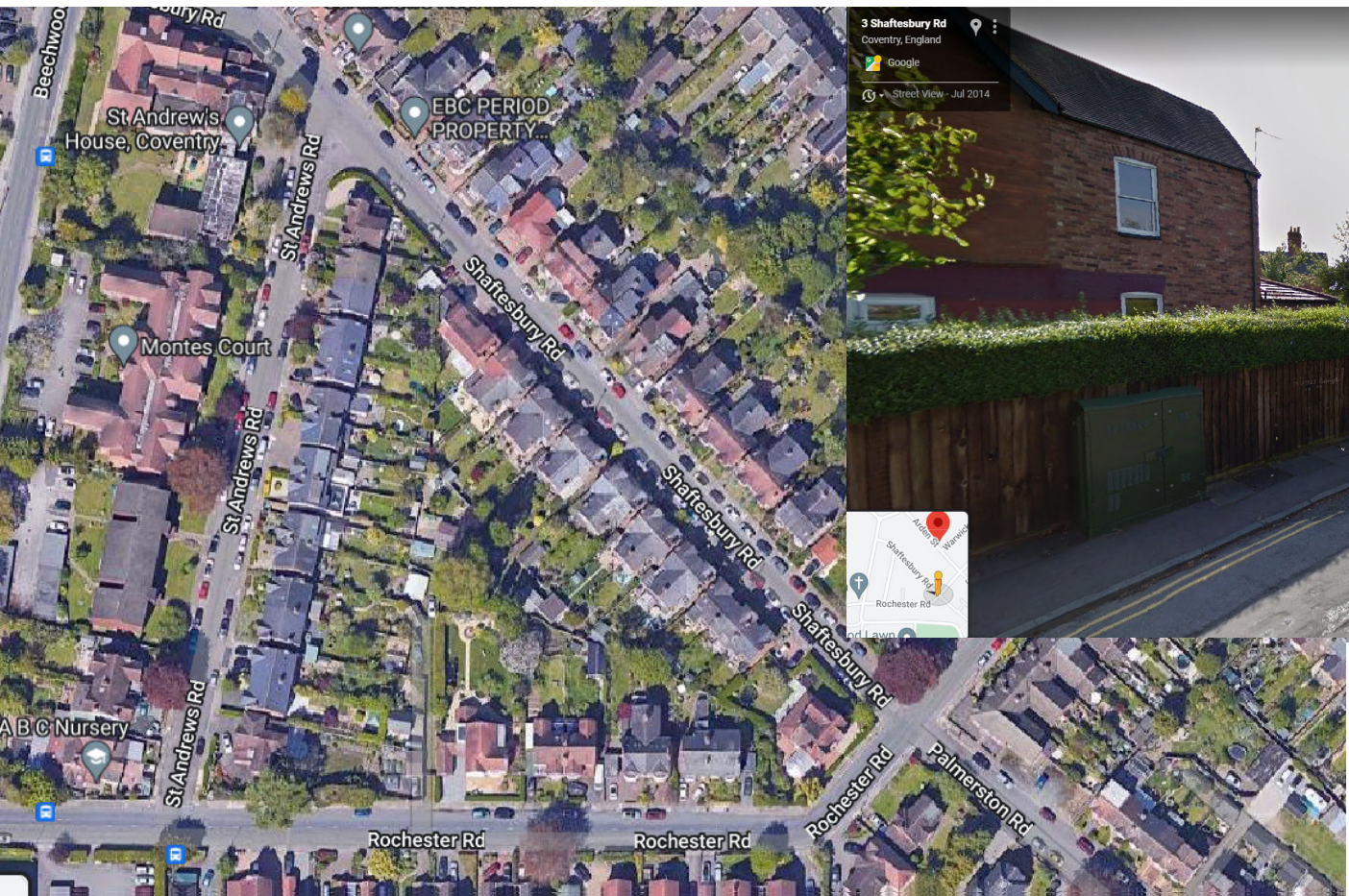
## Residents' association



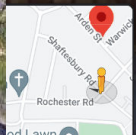
## Drop in sessions



## Finalise locations with all stakeholders onboard



3 Shaftesbury Rd  
Coventry, England  
Google  
Street View - Jul 2014



Site Selection :  
Example of locations for EVCP  
For residents who don't have  
Off street parking facility

# Consultation process

- Locations are identified and drawings prepared
- Street News narrative is prepared, it is circulated for approval
- Street News with the approved drawing are then sent to Comms Graphic Design Office
- The proofed version is then sent to the Cabinet Members for Jobs, Regeneration and Climate Change and the Cabinet Member for City Services for comments
- The Street News is then sent to all the ward councillors before arranging the printing for Street News delivery to the residents.

## Evans-Gadgil, Shamala

**From:** Evans-Gadgil, Shamala  
**Sent:** 10 January 2023 16:14  
**To:** Singh, Rupinder (Cllr); Miks, Catherine (Cllr); McNicholas, John (Cllr)  
**Subject:** Onstreet Residential Chargepoint Scheme Phase 8 - Consultation Zones Bc/Bd and Bo/Bp  
**Attachments:** On-Street Residents Chargepoint Scheme Phase 8 - Members Consultation.xlsx; 22-0984-HG Street News Electric charging points Bc\_Bd.pdf

Hello Councillor Singh/Councillor Miks/Councillor McNicholas,

As you will be aware, the On-street Residential Chargepoint Scheme (ORCS) up to Phase 5 is now complete, and Phase 6 will be completed by the end of January 2023. We have also been successful in securing the funding for Phase 7, to install 167 charging bollards (with 30 single socket and 137 dual sockets) to be completed by the end of August 2023, making 1,297 public charging spaces available across the city. The works for Phase 7 is due to start end of January 2023.

The City Council is being encouraged by Office for Zero Emission Vehicle (OZEV), based on our track record of successfully installing charge points, to submit a further funding application to install an additional 450 charging bollards across the city. This application would need to be made before the end of March 2023. We have identified potential locations for these charge points on the same basis as our previous Phases, targeting streets where off-street parking is not available to the residents. As with previous Phases, we have prepared a Street News for issue to residents within each area (see attached). The maps will vary depending upon the area covered by each Street News, but the text will remain the same, to that extent, please also see attached a spreadsheet showing the street names, wards, and the number and type of chargers proposed.

The proposal is to deliver the consultation street news next week. **Any issues with the proposed locations will be picked up after the consultation and addressed before a bid application is made to OZEV towards the end of February, beginning of March 2023.**

The consultation period is proposed to be over a three week period from 23rd January 2023 to 10th February 2023. The Street News delivery will commence w/c 16th January 2023. All the Street News delivery will be completed by 20th January 2023.

The programme for Phase 8 is as follows:

Street News delivery – from 16th to 20th January 2023

### Consultation

Online sessions –

Zone Bc/Bd - 31st January 2023 6pm to 7:30pm

Zone Bo/Bp - 06th February 2023 6pm to 7:30pm

Face to face - Central Library 09th February 2023 from 4pm to 6.45pm (all Zones)

Submit bid application – 03<sup>rd</sup> March 2023

Expected decision date – 31st March 2023

Second Street News delivery if successful – 05th June 2023

Works start - 03rd July 2023

Please do not hesitate to contact me if there are any queries regarding the above.

1

Regards

*Shamala Evans-Gadgil*

Senior Programme/Project Manager

Consultant working on behalf of

Coventry City Council

Transport, Infrastructure and Innovation,

Tel: 024 7697 6691

[Shamala.Evans-Gadgil@coventry.gov.uk](mailto:Shamala.Evans-Gadgil@coventry.gov.uk)

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If you are interested in finding out more about the benefits of switching to an electric vehicle, look at [www.edenergy.com/electric-cars/buyers-guide](http://www.edenergy.com/electric-cars/buyers-guide) or [www.zap-map.com/electric-vehicles/](http://www.zap-map.com/electric-vehicles/) where you will find information that will help you decide whether an electric vehicle is for you.

**Online drop-in sessions**

Please come along to the online drop-in session where we will be able to answer your questions:

Date: Monday 30 January from 6pm to 7.30pm

Venue: Online drop-in session

To receive the joining instructions please email [shamala.evans-gadgil@coventry.gov.uk](mailto:shamala.evans-gadgil@coventry.gov.uk) with the date of the meeting you would like to attend. If you want to phone in to the meeting, please also let us know that in your email.

**In-person drop-in sessions**

We are also holding an in-person drop-in session:

Date: Thursday 09 February from 4pm to 6.45pm

Venue: Central Library, Smithford Way, Coventry CV1 1FY

To get more information on electric vehicle charging points, or to discuss the proposed funding bid, please contact: Shamala Evans-Gadgil (Project Manager, Transport Infrastructure and Innovation) on 07779 080846 or email [shamala.evans-gadgil@coventry.gov.uk](mailto:shamala.evans-gadgil@coventry.gov.uk)



January 2023

**On-street residential electric vehicle charging point scheme:**

**Zone Aw/Ax**



We would like to find out your views on our plans to install on-street electric vehicle charging points in your area. We want to make it easier for people to use electric vehicles as one of the ways of improving air quality in Coventry, and although we already have one of the best charging point networks in the UK, we know more are needed.

One of the main barriers to electric vehicle ownership is not having a private drive or garage in which to park and charge a vehicle. To address this, we have so far secured £4m of grant funding from the government to install charging points for residents in the city. We have installed 558 charging points on residential streets across Coventry and a further 157 are due to be installed by end of January 2023.

Whilst this provides one of the best charging point networks in the country, we still want to provide more chargepoints to provide electric car charging facilities for residents who don't have off-street parking facility. Now we have another chance to bid for additional funding, and we would like to know if you support the idea of charging points being installed in your area. The maps inside show the locations that are being considered.

Most of the charging points would take the form of a bollard which will be powered by the existing lamp post or by connecting to a feeder pillar (an independent power supply). The charge points will be kept updated for at least the next 15 years. The photo shows the type of charging point that has already been installed using the government grant, and those that would be installed in your area would be the same as this.

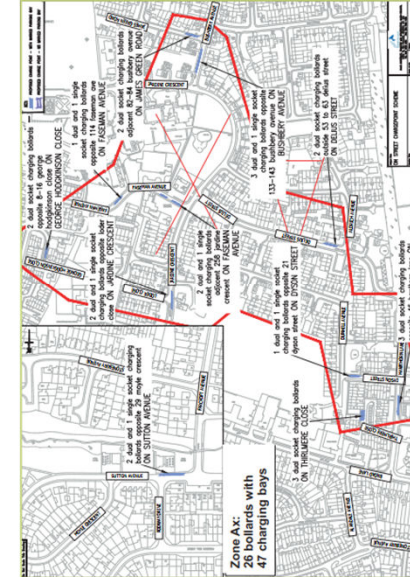
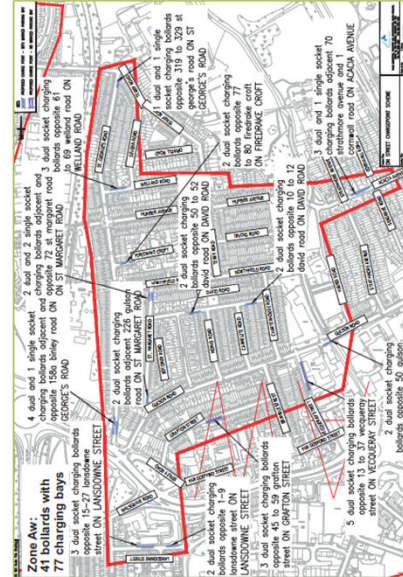
We will not place any parking restrictions on the use of the parking spaces next to the charging points until the number of electric vehicles has increased. There will be bay markings and sensors installed in each space (where possible), which will mean we can monitor usage and identify when electric car ownership increases.

All charging points will be for residents and their visitors only. Only residents of properties within the area will be allowed to register for the charging points.



[www.coventry.gov.uk](http://www.coventry.gov.uk)

Street news



Consultation :  
Example of notifying residents

# Consultation process following objection received

- If objection is received during consultation, the location is removed and a new location is identified.
- An application is then made to Office for Zero Emission Vehicles (OZEV) for funding.
- Once the grant offer letter is received from OZEV, a second street news is developed with amended plans which shows the removed and new locations of the charging bollards and sent to the Cabinet Members for Jobs, Regeneration and Climate Change and the Cabinet Member for City Services for comments.
- This street news is then sent to all the ward councillors who were consulted originally before arranging the printing for Street News delivery.

## Evans-Gadgil, Shamala

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**From:** Evans-Gadgil, Shamala  
**Sent:** 15 May 2023 17:45  
**To:** Singh, Rupinder (Cllr); Miks, Catherine (Cllr); McNicholas, John (Cllr)  
**Subject:** Onstreet Residential Chargepoint Scheme Phase 8 - Street News Update Zones Bc/Bd and Bo/Bp  
**Attachments:** 23-0295-CB Street News Electric charging points BO-BP.pdf; 23-0295-CB Street News Electric charging points BC-BD.pdf

Hello Councillor Singh/Councillor Miks/Councillor McNicholas,

Following on from the below email, I would like to inform you that the attached updated street news will be sent for printing Monday next week and delivered to all the residents who were consulted in beginning of the year, week commencing 5th June 2023. The update considers any changes made following the initial consultation.

Regards

*Shamala Evans-Gadgil*

EV Infrastructure Programme Manager

Consultant working on behalf of

Coventry City Council

Transport, Infrastructure and Innovation,

Tel: 024 7697 6691

[Shamala.Evans-Gadgil@coventry.gov.uk](mailto:Shamala.Evans-Gadgil@coventry.gov.uk)



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**From:** Evans-Gadgil, Shamala  
**Sent:** 10 January 2023 16:14  
**To:** Singh, Rupinder (Cllr) <Rupinder.Singh@coventry.gov.uk>; Miks, Catherine (Cllr) <Catherine.Miks@coventry.gov.uk>; McNicholas, John (Cllr) <John.McNicholas@coventry.gov.uk>  
**Subject:** Onstreet Residential Chargepoint Scheme Phase 8 - Consultation Zones Bc/Bd and Bo/Bp

Hello Councillor Singh/Councillor Miks/Councillor McNicholas,

Your questions answered:

1. What are the benefits of owning or leasing an electric vehicle?

- cheaper to run
- cheaper to maintain
- better for the environment
- quiet
- there are tax savings and incentive initiatives

2. How do I charge it if I don't have off-street parking?

The Office for Zero Emission Vehicles (OZEV) has made funding available for local authorities to provide on-street charge points for residents who do not have access to an off-street parking facility. By installing charge points on-street, residents without off-street parking can enjoy the convenience and value of charging their electric vehicles at home. As more residents use electric vehicles, communities will benefit from improved air quality.

3. How much does charging an electric vehicle cost?

Coventry City Council has entered into a 15-year contract with a supplier to provide, install and maintain charge points for electric vehicles in the city. The supplier will charge 40p/kWh until March 2025.

4. How much is this scheme costing to install and who is paying?

The total project will cost £4.7m. Coventry City Council has been awarded £2.8m (60%) to install on-street charge points, with the remaining 40% funded by the charge point supplier.

5. How were the areas chosen?

Areas have been chosen where there is no off-street parking facility.

6. Who is the charge point operator and what is the tariff?

The charge point operator is Connected Kerb (<https://www.connectedkerb.com/>). The tariff will be 40p/kWh until March 2025. For this phase, the delivery programme is to have all the charge points operational by end of March 2024.

If you have any comments or questions, please contact Shamala Evans-Gadgil on 07779 080846 or email her at [Shamala.evans-gadgil@coventry.gov.uk](mailto:Shamala.evans-gadgil@coventry.gov.uk)



June 2023

On-street residential electric vehicle charging point scheme: Update:

Zone AW/AX

We recently asked for your views on plans to install on-street electric charge points in your area. We listened carefully to all your comments and have made some changes to our original proposal taking into account feedback received from residents and ward councillors. Based on the revised proposal Coventry City Council submitted a bid to the Government's Office for Zero Emission Vehicles [OZEV] for funding to install the charging bollards.

I am pleased to inform you that we have been successful in securing this funding and are now able to progress with the installation of charging bollards. The map inside shows the revised proposal that we are planning to implement.

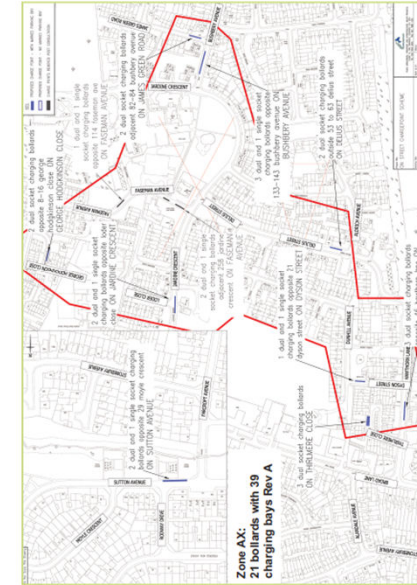
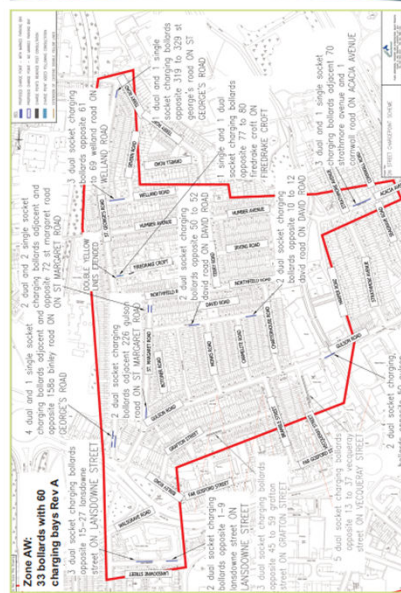
Most of the charging points will take the form of a bollard which will be powered by connecting to a feeder pillar (an independent power supply) and will make no noise or any vibrations. The photo shows the style of charging bollards that have already been installed elsewhere in Coventry using the government grant, and the ones installed in your area will be the same as these.

There will be no parking restrictions initially placed on the use of the parking spaces next to the charging points, meaning that there will be no loss of parking. Sensors installed in each space will mean we can monitor usage and restrictions will only be considered in the future should electric vehicle ownership and usage justify such action.

We aim to start the works to install the charge points from July 2023 with all work completed by end of March 2024.



Street news



Consultation :  
Example of notifying residents

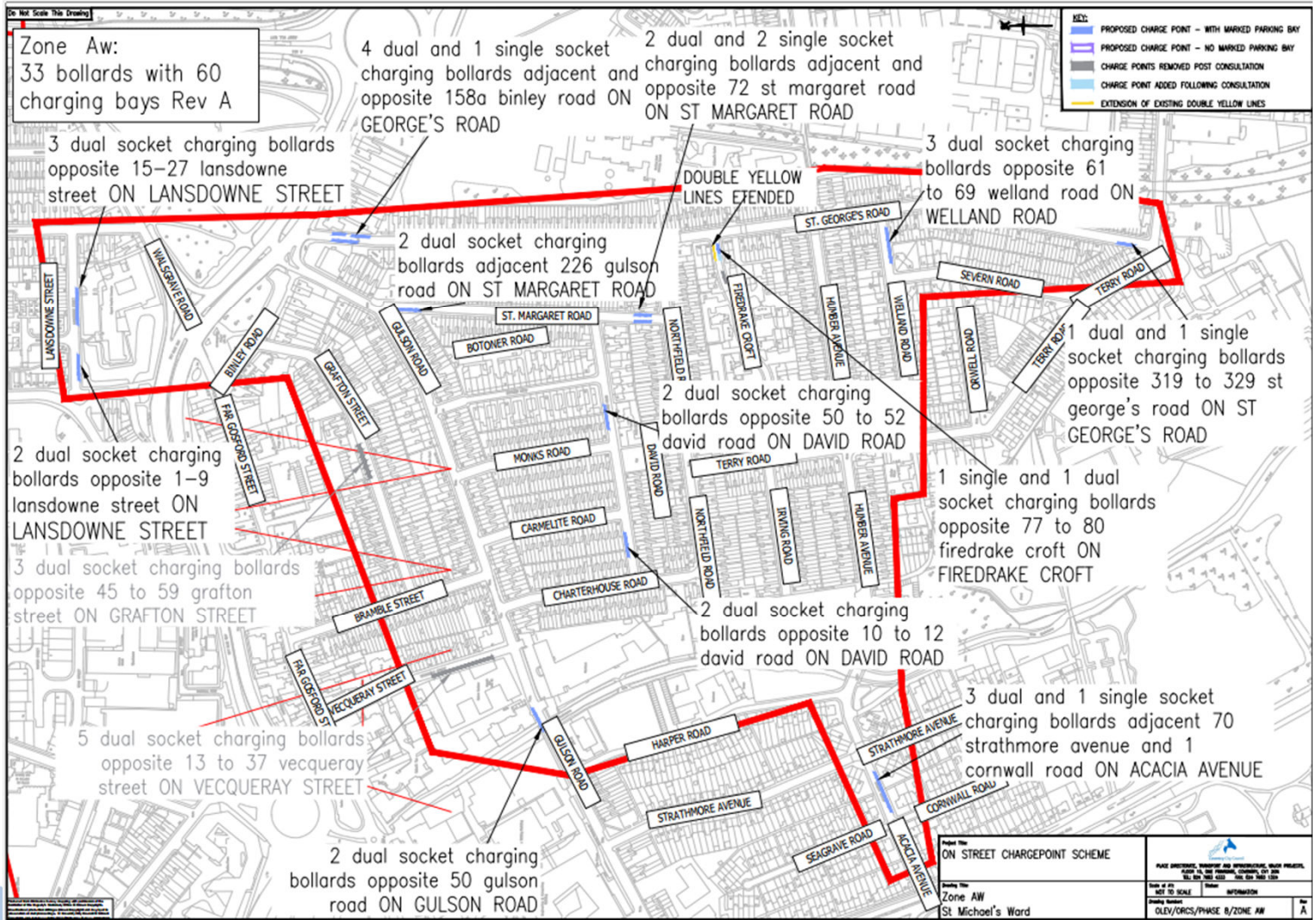


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Greyed out locations showing chargepoints removed following consultation

# Consultation process following objection received during delivery

- During delivery, if for any reason the adjacent property owner to the location of the installation of Charging unit raises objection, then the said location is abandoned and new location is identified.
- To undertake the installation of a charging bollard at the alternate process it is necessary to make sure that there is power capacity available.
- This process is lengthy as an application for the power supply needs to be made to National Grid Electricity Distribution (NGED).
- Once a positive response is received from NGED, a letter drop to the residents of the identified street is carried out.

Consultation material – next slides

Dear Occupier

#### Alliance Way – Installation of one single and one dual 7kW charging bollards

We are keen to find out your views on our plans to install on-street electric vehicle charging points in your area. We want to make it easier for local people to use electric vehicles as one of the ways of improving air quality within Coventry, but although we already have one of the best charge point networks within the country, we know more charging points are needed. One of the main barriers to electric vehicle ownership is people not having a private driveway or garage in which to park and charge their vehicle. To address this, we have so far secured £4m grant funding from Government to install slow and fast chargepoints for residents in the City. To date, we have installed 958 charge points on residential streets across the city – more than anywhere else outside London.

We have funding to install one single and one dual sockets charging bollards (three spaces). We are keen to know if you support the idea of these one single and one dual sockets charging bollards being installed on Alliance Way (see location overleaf)

The charging points would take the form of a bollard which will be powered by connecting to a feeder pillar, will make no noise or vibration and will be kept updated for the next fifteen years. The photo below show the type of charging bollards that has already been installed using the government grant, and the one single and one dual socket charging bollards being installed on Alliance Way would be the same as this. There will be no parking restrictions placed on the use of the parking spaces next to the charging points until the number of electric vehicles has increased. There will be sensors installed in each bay, which will mean we can monitor usage and identify when electric car ownership increases.

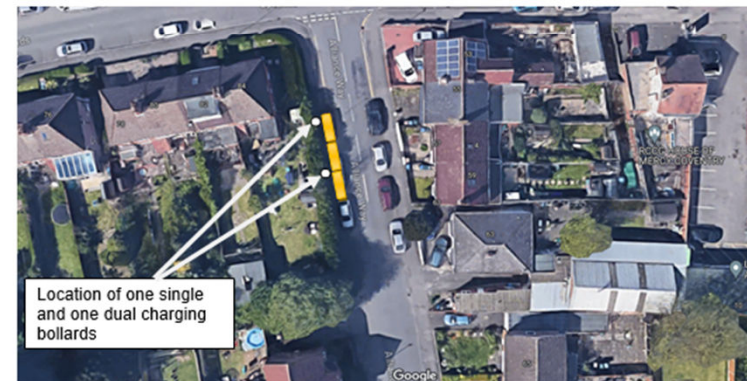
If you are interested in finding out more about the benefits of switching to an electric vehicle, look at <https://www.edfenergy.com/electric-cars/buyers-guide> where you will find information that will help you decide whether an electric vehicle is for you.

Yours sincerely,  
Shamala Evans-Gadgil, Transport and Innovation

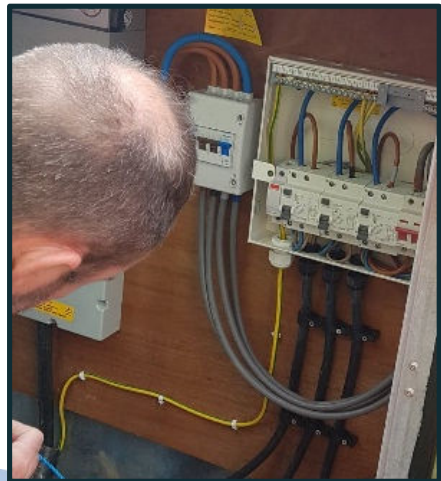
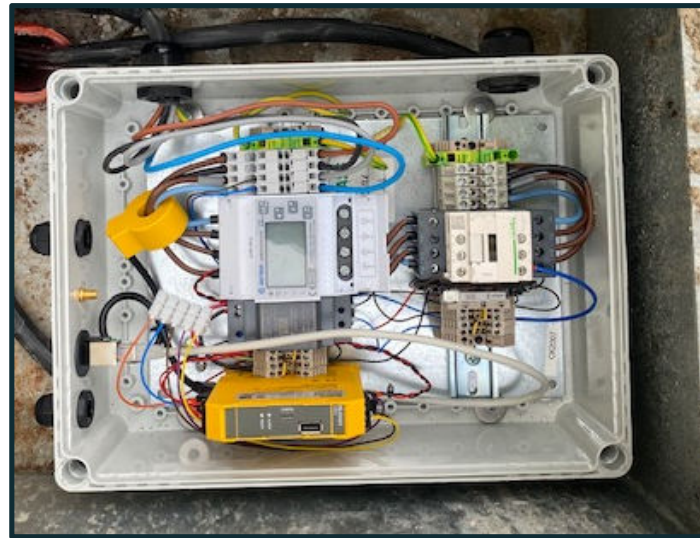


Image of charging bollard

If you wish to discuss the proposal further or have any queries, please contact me via email at [Shamala.evans-gadgil@coventry.gov.uk](mailto:Shamala.evans-gadgil@coventry.gov.uk) or call me on 02476 976691



# Installation challenges and solutions



CPO installation:  
Example of node box  
underground with the charging  
bollard above ground



Challenges:  
Example of underground challenge during construction

Solution:  
Example of R&D underground solution during construction

# Enforcement and Monitoring

# Coventry City Council

## Electric Vehicle Charging installation process through Local Authority

### Traffic Regulation Order/Traffic Management Order

#### Experimental [ETRO]/[ETMO]

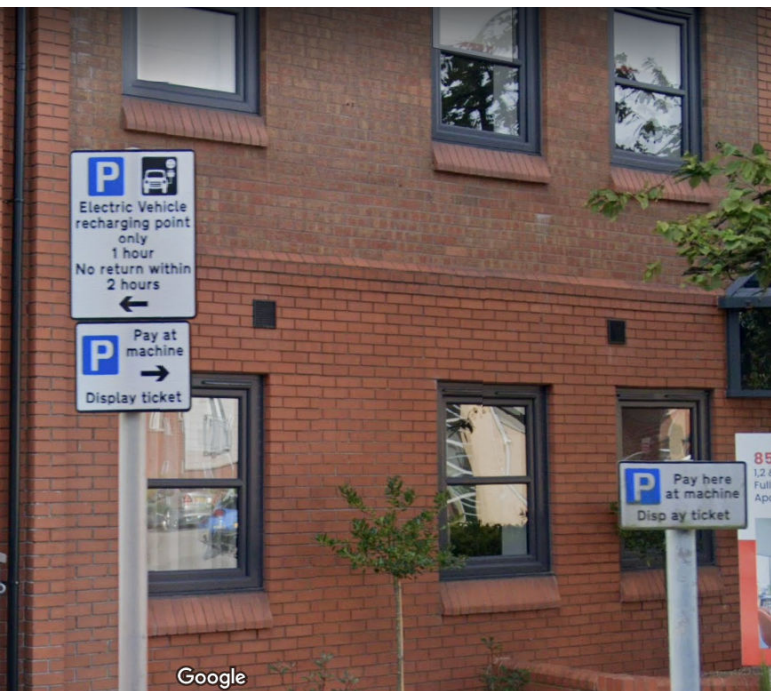
- ETRO is advertised for 7 days and then becomes operational. There is a six months objections period under the ETRO. If objections are received, a report with objects listed and recommendations made, is submitted to the Cabinet Member for consideration, who then makes the decision. ETRO has a total of 18 months to make the order permanent

#### Permanent [TRO]/[TMO]

- TRO is advertised for 21 days. This is the statutory objection period. If objections received, a report with objects listed and recommendations made, is submitted to the Cabinet Member for consideration, who then makes the decision. TRO is then either made permanent or the restrictions are not introduced.

- Considerations to carry out civil's work
- locations
- [footpaths: widths of footpath, location as near as any retail area, presence of statutory undertakers' apparatus, minimum 4.5m away from any existing feeder pillars or lighting columns or any lit signs]
- NRSWA Notices
- Traffic Management
- Start of work letter drop





Example of Electric Vehicle Charging signage

## LA Time Line

### ETRO/ETMO

- Prepare schedule 1 week
- Advertise notice 1 week
- ETRO operational 1 day
- Objection period 6 months

### TRO/TMO

- Prepare schedule 1 week
- Advertise notice 1 day
- Objection period 21 days

### Objections received

- Cabinet report 3 months

# Thank You Any Questions?

EV charging point installation rollout - Scrutiny Board 3