

Providing street works access to EV chargepoint operators

Setting the scene - The Need for Innovation



Shamala Gadgil, Coventry City Council

MSc | MTICE | FCIHT | FIHE | PWI | IOSH | PMI

21.8.2024

Providing street works access to EV chargepoint operators

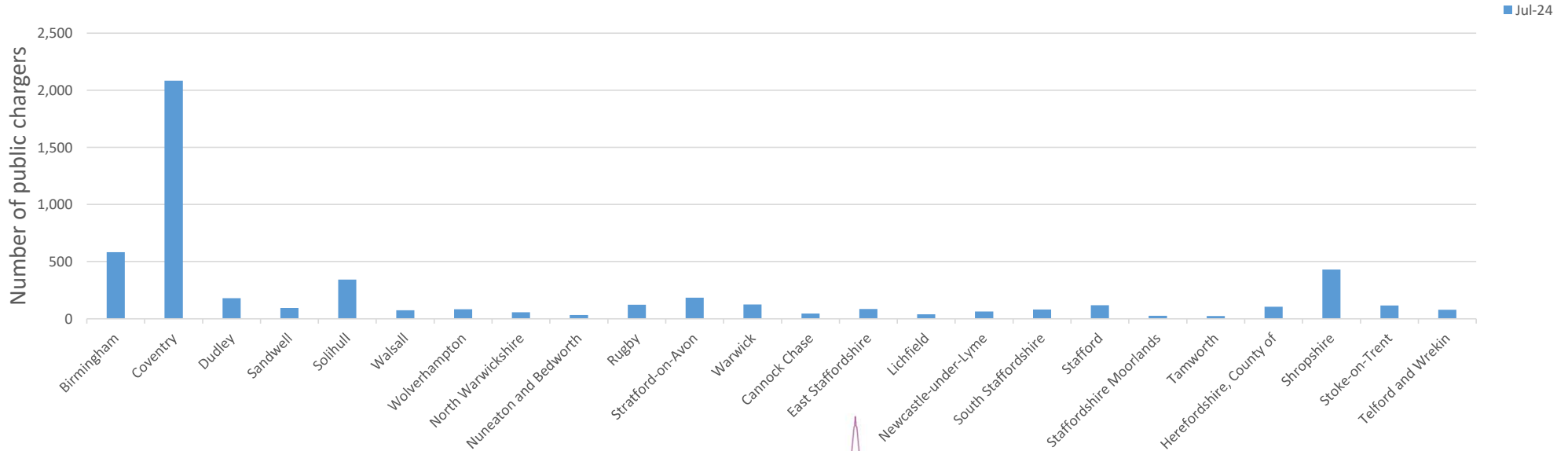
Speaker Profile:

- Shamala Evans-Gadgil: 5th year part time PGR, with a Civil Engineering and Contract Management background
- Consultant to Coventry City Council as CVLR CCD Project Manager and 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
- Member of the IET EVI Public Sector Committee 2024



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Electric Vehicle Public Charging Infrastructure Statistics: July 2024

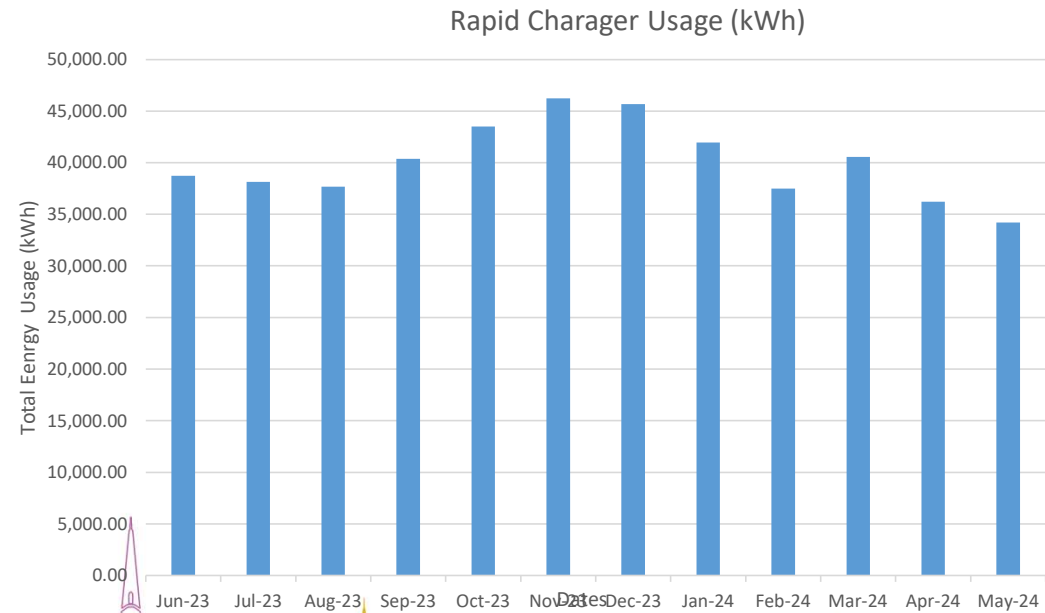


West Midlands



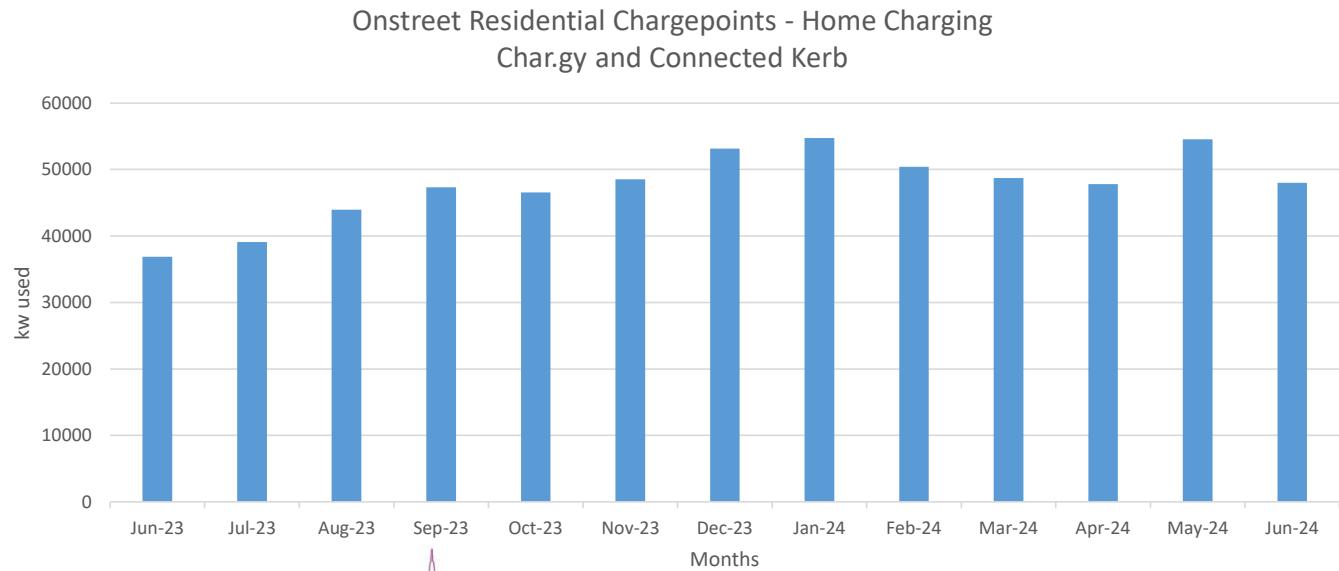
Rapid charger usage graph

- This graph shows usage from July 2023 to July 2024.
- Rapids chargers are used for opportunity charging for both visitors and residents
- The latest figures shows 35334 kWh was being used in June 2024.
- Usage has been broadly consistent over the last year, with 30,000 – 50,000 kWh typically beings used per month.



Residential charger usage graph

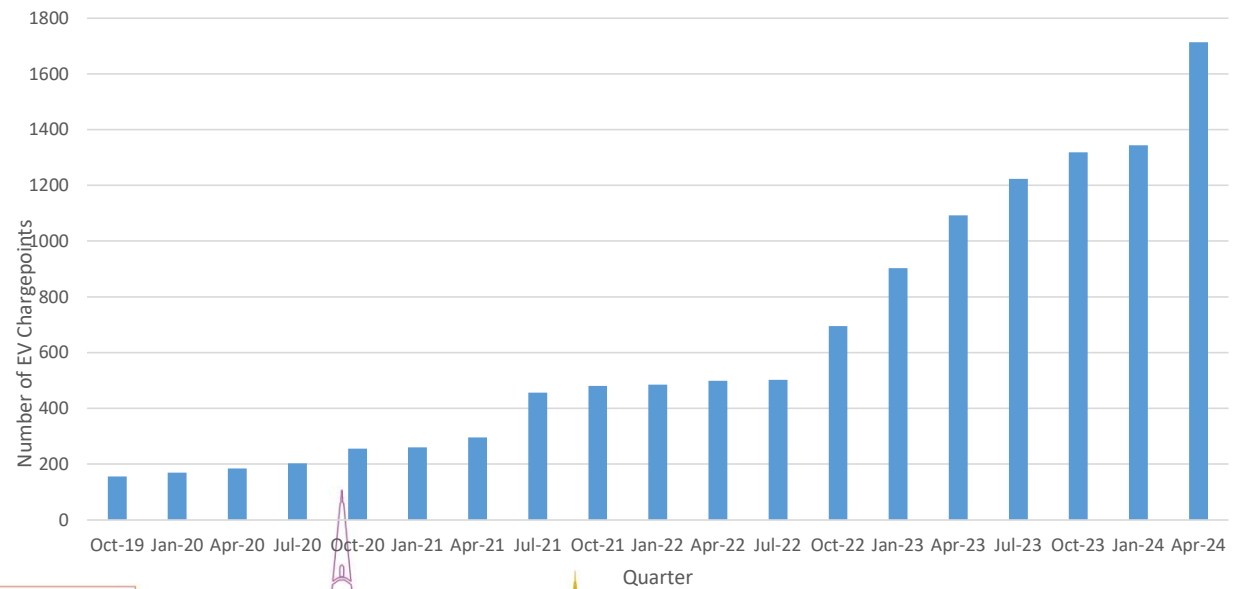
- This graph shows the usage of the residential chargers between June 2023 and June 2024
- January 2024 experienced the highest charger usage in the recorded history of the chargepoints being installed



Number of charging devices in Coventry

- This graph shows the number of charging devices in Coventry between October 2019 and April 2024.
- The latest figures show that there are now 1,713 charging points in Coventry.

Electric Vehicle chargepoints in Coventry since October 2019



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Highway Challenges & the need for Innovative Charging Solutions



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Why Should Local Authorities be Responsible for Providing Electric Vehicle Charging Infrastructure? and

Why are these interventions necessary?

Types of dwellings within a local authority conurbation:

Flats/apartments

Terraced houses

Maisonettes

flats above retail units

Bungalows/Cottages without off street parking



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Where Can Local Authorities [LA] Provide Electric Vehicle Charging Infrastructure for Properties without off-street parking facilities

- Highway
 - kerbside
 - laybys
 - verge parking
- LA owned car parks
- Hubs on LA owned land



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Challenges When Installing Electric Vehicle Charging Infrastructure in the highway:

Highways Act 1980

115B Provision etc. of services and amenities by councils

<https://www.legislation.gov.uk/ukpga/1980/66/section/115B>

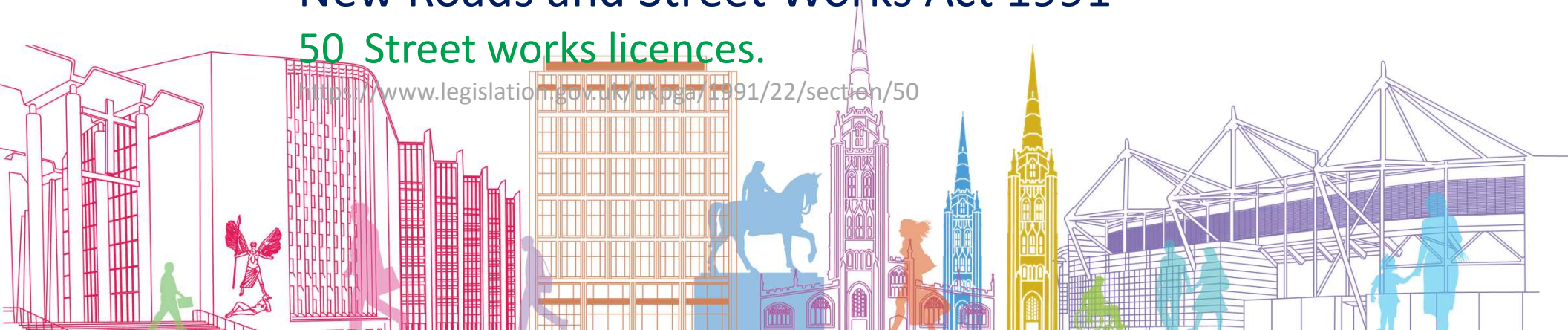
115E Execution of works and use of objects etc. by persons other than councils.

<https://www.legislation.gov.uk/ukpga/1980/66/section/115E>

New Roads and Street Works Act 1991

50 Street works licences.

<https://www.legislation.gov.uk/ukpga/1991/22/section/50>



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How to overcome these challenges?

Consultation and through New Innovative Solutions



Consultation



Early consultation with local DNO



Ward Councilors



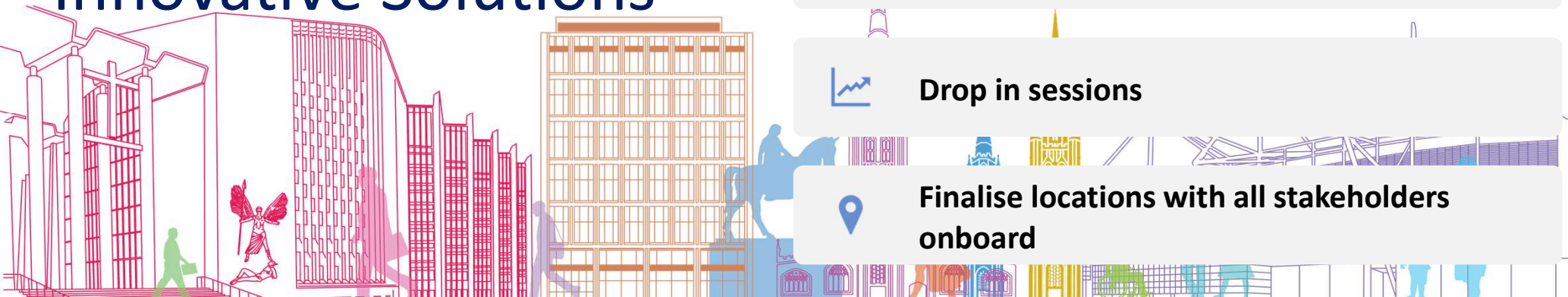
Residents association



Drop in sessions



Finalise locations with all stakeholders onboard

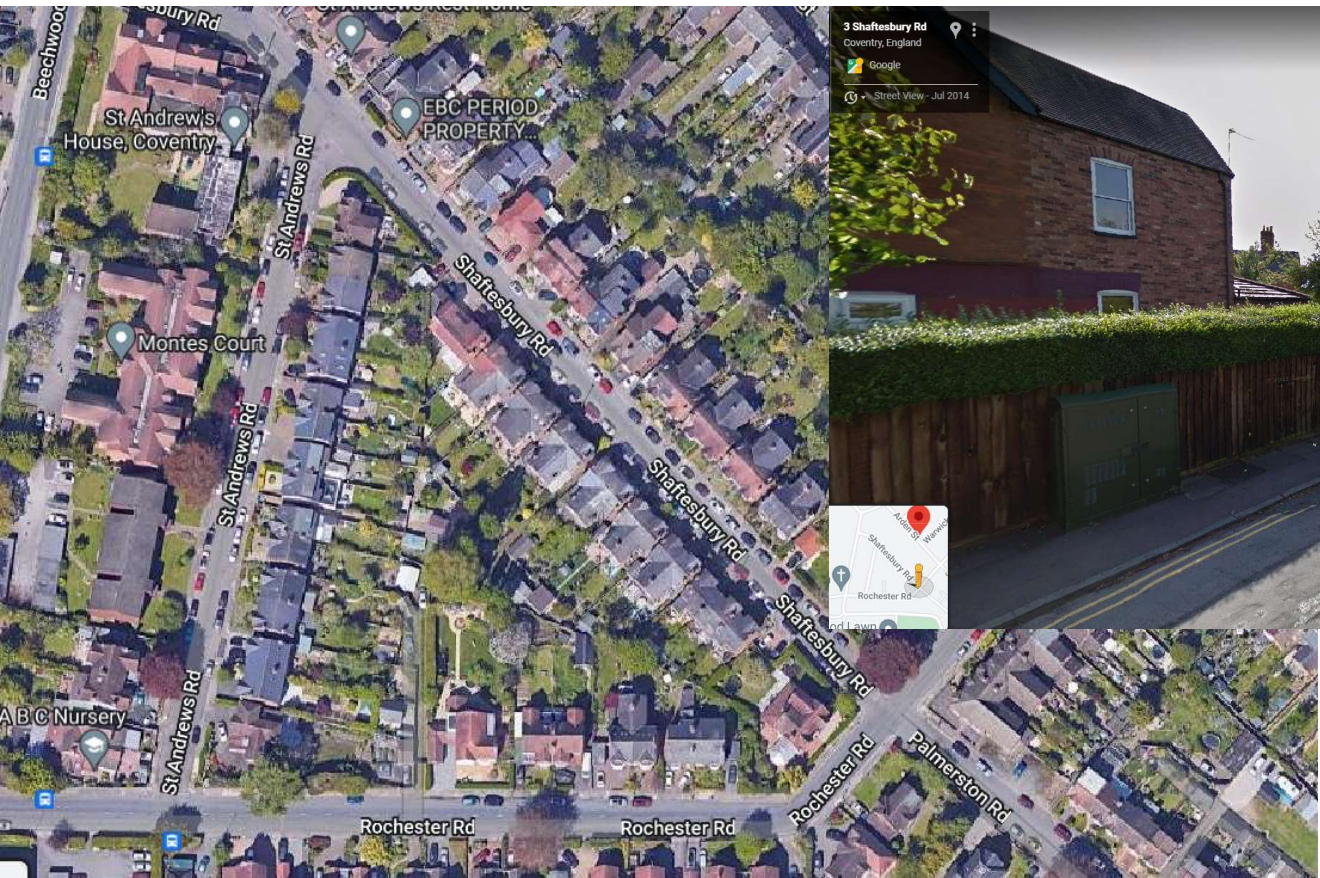


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Consultation process

- Locations are identified and drawings prepared
- Locations are submitted to DNO
- 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
- The Street News is then sent to all the ward councillors before arranging the printing for Street News delivery to the residents.



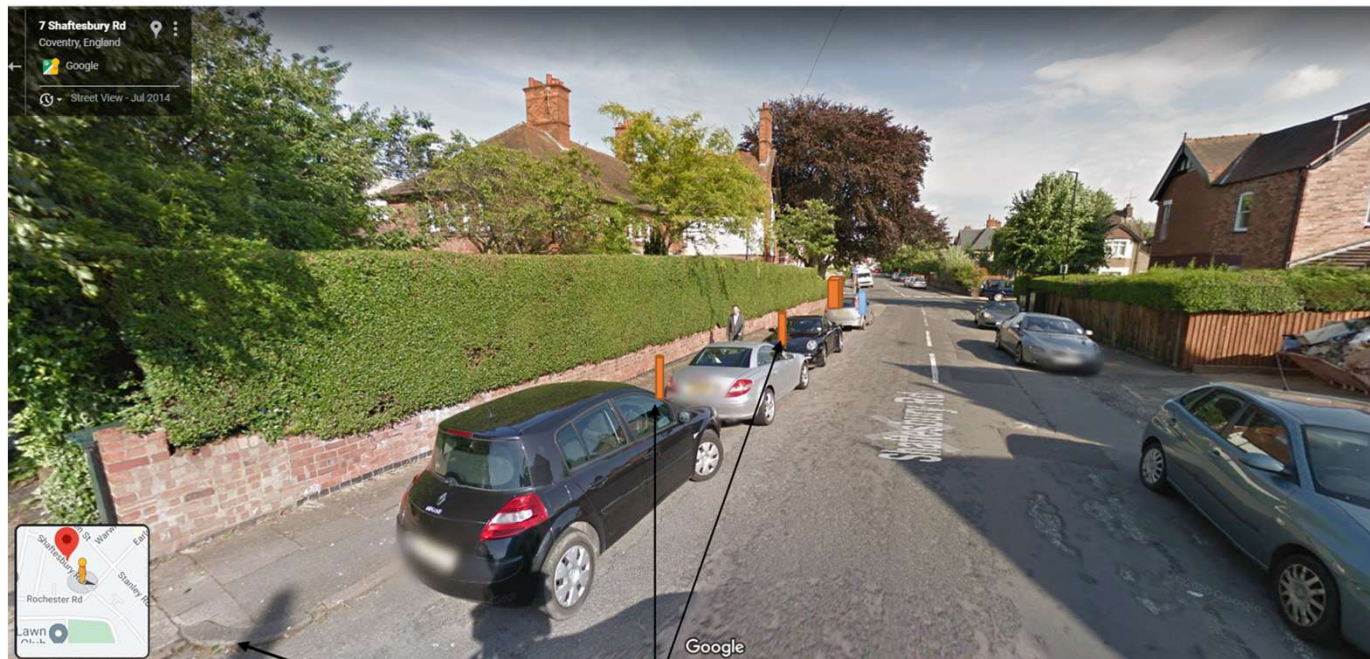


Site Selection :
Example of locations for EVCP
For residents who don't have
Off street parking facility



Example of details for the DNO

Shaftesbury Road x 5 (1 single and 2 dual sockets charging bollards)



5 x 7kW (three phase supply)

E = 431735

N = 277804

2 dual socket charging bollards

'H' bar markings for 22 Radcliffe on Shaftesbury Road



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Street news

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 or 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 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



Street news

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 £1m 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.

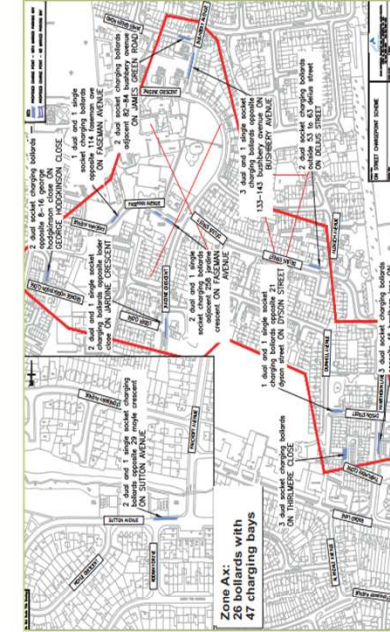
We will not place any parking restrictions on the use of the parking spaces next to the charging points until the number of electric vehicles has increased. There will be bay markings and sensors installed in each space (where possible), which will mean we can monitor usage and identify when electric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



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Street news



Consultation : Example of notifying residents



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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.
- This street news is then sent to all the ward councillors who were consulted originally before arranging the printing for Street News delivery.



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



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.

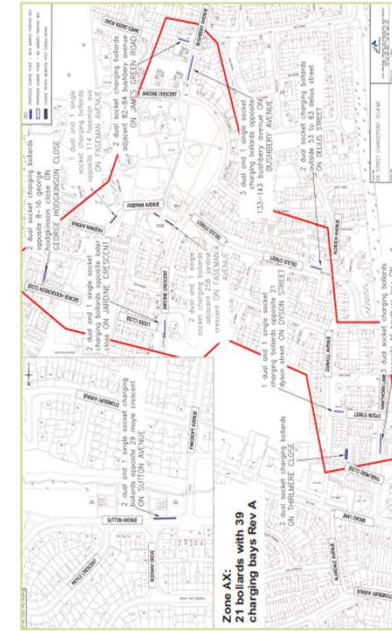
Most of the charging points will take the form of a bollard which will be powered by connecting to a feeder pillar (an independent power supply) and will make no noise or any vibrations. The photo shows the style of charging bollards that have already been installed elsewhere in Coventry using the government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

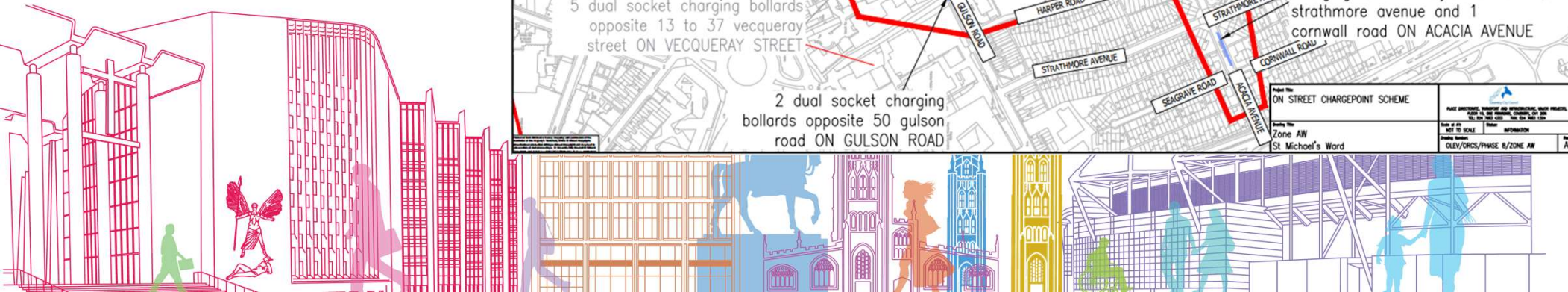
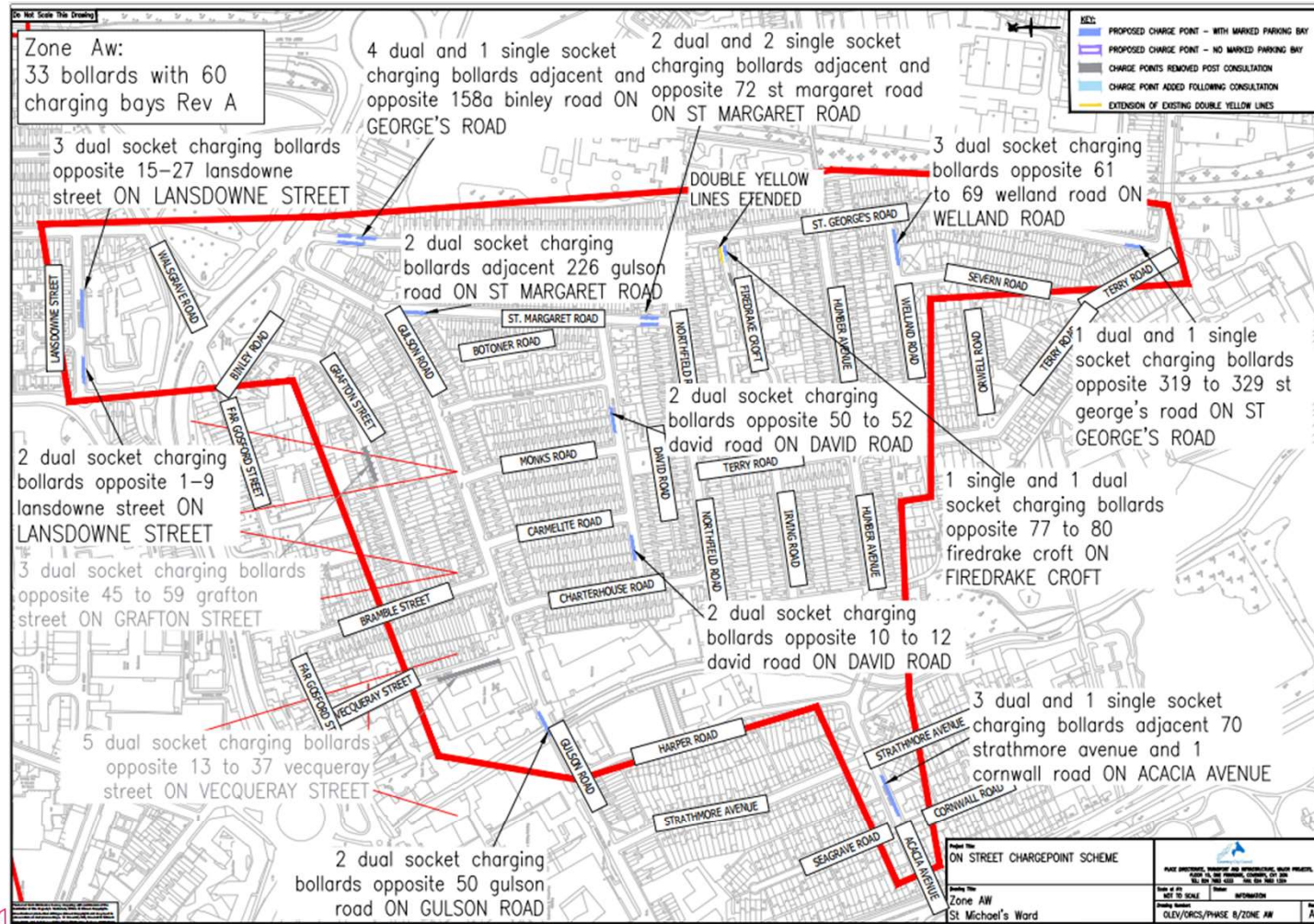


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Consultation : Example of notifying residents



Greyed out locations showing chargepoints removed following consultation



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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 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.





Place Directorate
Transportation and Innovation

One Friargate,
Floor 10
Coventry
CV1 2GN

www.coventry.gov.uk

Please contact Shamala Evans-Gadgil
Direct line 024 7697 6691
Mobile: 07590 443913
Fax 024 769783 1324
Shamala.evans-gadgil@coventry.gov.uk

Ref: ORCS/SE/Ph8/ AW

October 2023

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.

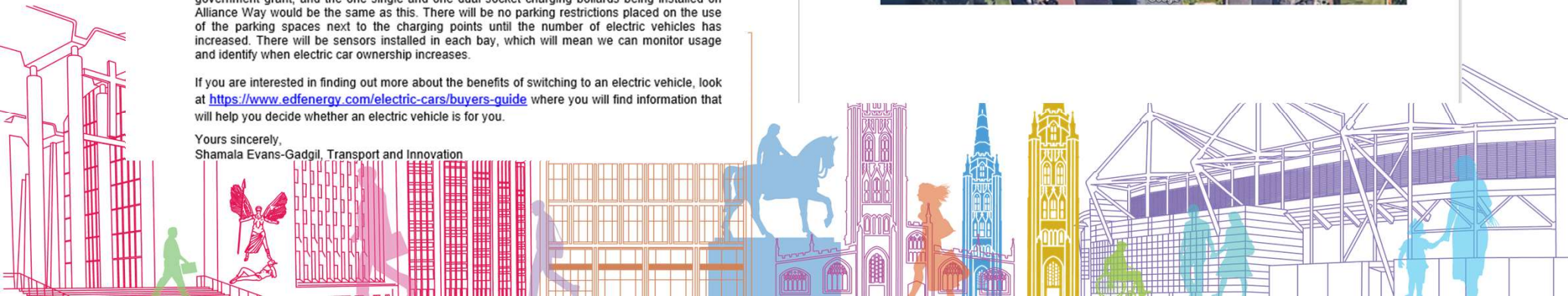
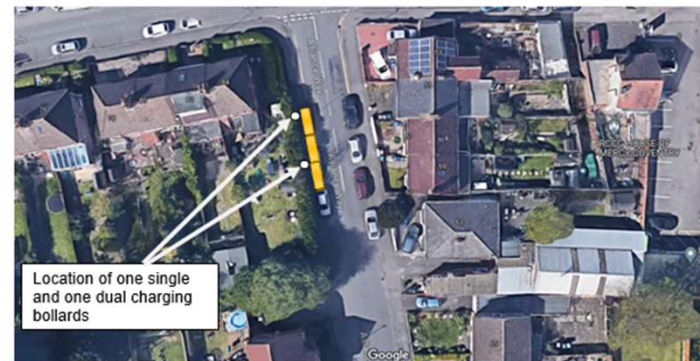
Yours sincerely,
Shamala Evans-Gadgil, Transport and Innovation

s to



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 or call me on 02476 976691



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Traffic Regulation Order/Traffic Management Order

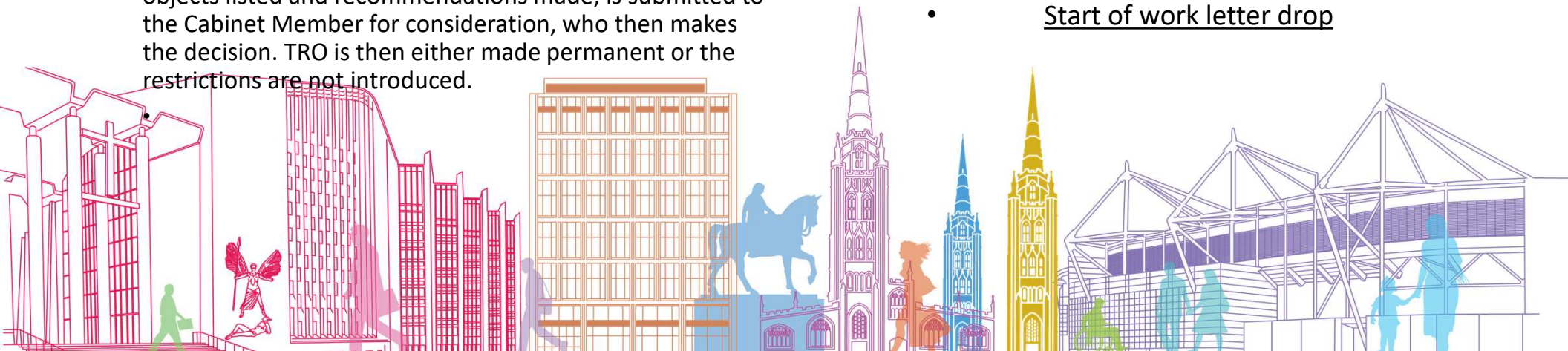
Experimental [ETRO]/[ETMO]

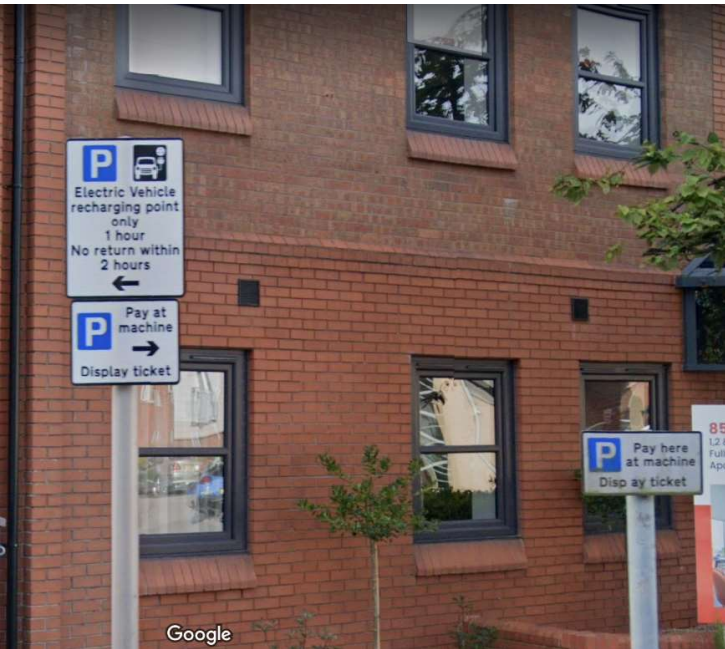
- ETRO is advertised for 7 days and then becomes operational. There is a six months objections period under the ETRO. If objections are received, a report with objects listed and recommendations made, is submitted to the Cabinet Member for consideration, who then makes the decision. ETRO has a total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





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

Example of Electric Vehicle Charging signage



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Thank You Any Questions?

Shamala.Gadgil@coventry.gov.uk

