

21st October, 2021

Electric Vehicle Charging Infrastructure

Ward(s): Borough-wide

Portfolios: Transport & Regeneration

1.0 Aim

- 1.1 As of October 2021, significant progress has been made towards installing electric vehicle charging infrastructure for residential use in Walsall. The aim of the most recent project is to install electric vehicle charging points on-street in residential locations, this will provide the opportunity for households without dedicated off-street parking to be able to switch to an electric vehicle. Whilst government grants exist for households with driveways and garages to install charge points on their property, this project will help fill in the gap for the population of Walsall who do not.

2.0 Recommendations

- 2.2 **It is recommended that members provide feedback on the proposed electric vehicle charging infrastructure in Walsall.**

- 2.3 **Members are invited to suggest locations for electric vehicle charging points for future installation.**

- 3.0 **Report detail – know**Context – National & Regional PolicyIn order to meet our international obligations, such as the [2015 Paris Agreement](#) and national policy of achieving [net-zero carbon emissions by 2050](#), the UK government has announced a national [ban on the sale](#) of new petrol and diesel cars by 2030 (with plug-in hybrid sales permitted until 2035). In line with the recently released [Transport Decarbonisation Plan](#).

- 3.2 In comparison to national government, the West Midlands is aiming towards a more ambitious date of [2041 for net-zero](#) carbon emissions.

- 3.3 Locally, [‘Transport in Walsall 2017-2022’](#) indicates the need to tackle poor air quality, declaring a borough-wide Air Quality Management Area (AQMA). Excess nitrogen oxide (NOx) and particulate matter (PM) emissions from petrol and diesel vehicles are a recognised risk to public health in Walsall, as stated in [‘Our Health and Wellbeing Strategy 2019-2021’](#).

- 3.4 The shift towards electric vehicles over the coming years will require the support of local authorities whilst the private market cannot provide all the necessary infrastructure, such as slow on-street residential charge points.

Context – Black Country Ultra Low Emission Vehicle (ULEV) Strategy

- 3.5 In February 2020, the Black Country local authorities developed an evidenced ULEV Strategy to boost electric vehicle uptake. The Black Country ULEV Strategy was publicly consulted on from 10/08/20 to 09/10/20, then endorsed at Heads of Regeneration (HoR) and the Association of Black Country Authorities (ABCA) in February 2021.
- 3.6 Key findings:
- a. currently in Walsall, only 0.19% of cars are electric.
 - b. at present, approximately 85% of the Walsall land area is further than 1km from the nearest publicly available chargepoint. Walsall has the lowest baseline of public charging infrastructure in the Black Country (19 sockets).
 - c. the number of electric vehicles in the Black Country is projected to increase to 42,500 by 2025, less than five years from now.
the required increase in public ULEV charging infrastructure for Walsall by 2025 will be:
 - 7kW (Standard chargers): 163 sockets
 - 22kW (Fast chargers): 47 sockets
 - 50 kW (Rapid chargers): 4 sockets
 - 150kW (Ultra Rapid chargers): 1 socket
 - d. and, in Walsall, as a result of the 2030 ban, CO2 emissions are expected to reduce by 22.2%, NOx by 40.3% and PM by 62.1%, compared to 2019 figures.

Context – The 'On-Street Residential Chargepoint Scheme' (ORCS)

- 3.7 The objective of this scheme is to increase the availability of on-street chargepoints for electric vehicles in residential streets where dedicated off-street parking (driveways, garages) is unavailable. This removes the barrier of not having private off-street parking to switching to an electric vehicle.
- 3.8 The national funding allocated by the Office for Zero Emissions Vehicles (OZEV) for 2021/2022 is £20 million.
- 3.9 Delivery of infrastructure is required by March 2023 for bids submitted in the 2021/2022 financial year.
- 3.10 The funding will support 75% of the capital costs of installing charge points.
- 3.11 Priority will be given to local authorities who have not previously received funding, such as Walsall MBC.

Progress to date

- 3.12 Walsall MBC, alongside the other Black Country authorities, has submitted a bid to the ORCS fund to deliver 35 electric vehicle charge point sites, two sockets each, across the borough for a total cost of £338,712. OZEV will receive the bid on the week commencing 18th October 2021.

- 3.13 This first round of installing on-street electric vehicle charging infrastructure will support the goal outlined in the Black Country ULEV Strategy above, delivering 70 of the 163, 7KW sockets that are required by 2025 to meet projected demand.
- 3.14 Please see Appendix A for a list of the 35 charge point sites identified. This is still a flexible list subject to design work and public consultation. Potential backup sites are currently being identified in case any on Appendix A cannot be delivered.
- 3.15 Correspondingly, please find Appendix B for an accompanying map of where the 35 charge point sites identified would be installed.
- 3.16 Any installations will be subject to public consultation with residents and businesses in the immediate vicinity of each location. This will occur after grant funding is secured, which is expected in November 2021.
- 3.17 Walsall MBC will not seek to enforce electric vehicle charging bays with a Traffic Regulation Order, unless one is already present. The parking bay will be of use to both electric and non-electric vehicles, with the addition of signage indicating that electric vehicles can charge in that bay. Therefore, the installation of on-street electric vehicle charge points should not limit parking availability for other types of vehicles.
- 3.18 Procurement will be led by Transport for West Midlands (TfWM) and be procured through an established framework for electric charging infrastructure. Procurement will be for a value above the ORCS requirement to allow for additional call-off from the same operator if further funding is identified in the future. This procurement is expected to go out to market in November 2021.
- 3.19 The contract length, revenue share to the council and cost to the end user of the charge point will be defined during the tender.
- 3.20 Due to the financial contribution of grant capital funding, and council match funding, Walsall MBC will have more control over the locations, costs to consumer, potential profit-share and other contract terms.

4.0 Financial information

- 4.1 Walsall MBC aims to deliver 35 charge point sites across the borough for a total cost of £338,712. OZEV will supply 75% of capital funding at £254,034 and Walsall MBC will match £84,678.
- 4.2 The £84,678 match funding from Walsall MBC will be spread over the course of two years (2021/22 and 2022/23) and will be taken from the Transport Capital Programme (there is a Cabinet-approved budget allocation of £50,000 in 2021/22, and a complementary amount will be sought in 2022/23).
- 4.3 Walsall MBC will enter into a concession contract with the charge point operator. The contract will state that the operator takes on the revenue costs for operation and maintenance of the infrastructure, thereby reducing the financial risk to the council.

5.0 Reducing Inequalities

- 5.1 Socio-economic factors have been considered when identifying sites to install electric vehicle charging infrastructure. This project aims to reduce inequality by addressing the gap left by the private market. Private charge point operators are driven by where populations will most likely take up electric vehicles first. Whereas this project takes a longer view, understanding that areas of relative deprivation within Walsall may not be the first to buy electric vehicles, but public charging infrastructure should be available in these communities. We aim for a balanced geographical spread of charge points across the borough. Once the second-hand electric vehicle market has matured and central government apply supportive measures, the up-front cost of an electric vehicle will become less of a barrier. Furthermore, the current project is small scale but in future rounds of funding equity concerns can be addressed in the wider roll out.
- 5.2 More broadly, the installation of electric vehicle charging points in Walsall supports the objective of developing sustainable places and communities due to facilitating a reduction in emissions and air pollution. Encouraging the take up of electric cars will contribute to the national and local net-zero agenda and support Walsall's Air Quality Management Area.

6.0 Decide

- 6.1 There are no direct decisions to result from this report.
- 6.2 Members are requested to review the charge point locations that will be created via the Council's ORCS funding bid and inform officers – either in direct response to this report or on an ongoing basis – if they feel there are locations around the borough which would benefit from the installation of charge points and where either there are no charge points or where the number or speed of charge points is currently insufficient to meet user demand.

7.0 Respond

- 7.1 The committee's feedback on the current project for electric vehicle charging infrastructure in Walsall will be reflected in the next steps including procurement and public consultation.
- 7.2 The committee's recommendations for locations of charging infrastructure will be considered by officers prior to the Council submitting bids to subsequent rounds of ORCS funding, and any other relevant future projects or funding streams.

8.0 Review

- 8.1 In order to obtain the grant funding Walsall MBC have had to submit evidence of spend and exact locations for installation for review by OZEV.
- 8.2 Once delivered, the charge point sites will have to be added to the national chargepoint registry.
- 8.3 The [data on the usage](#) of the charge points must be submitted to OZEV for three years from the date the sites become operational.

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Appendices

Appendix A: List of the current sites for on-street residential chargepoint installation.

No.	ID	Location	Postcode	No. points	No. Sockets
1	WAL_0241	Outside 250-252 Lichfield Road, Willenhall	WV12 5BG	1	2
2	WAL_0244a	Opposite 42 Hilton Road, Willenhall	WV12 5XE	1	2
3	WAL_0244b	12 Dorchester Road, Willenhall	WV12 5XS	1	2
4	WAL_0057b	Outside 39 High St Pelsall.	WS3 4LT	1	2
5	WAL_0059	Outside Athelney Court, Station Rd, Pelsall, Walsall	WS3 4DT	1	2
6	WAL_0180	Opposite 113 Bescot Street, Walsall, WS1 4HY	WS1 4HY	1	2
7	WAL_0181	Adjacent to 62 Arundel Street, on Thorpe Road, Walsall,	WS1 4BT	1	2
8	WAL_0203	Opposite 121 Pargeter St, Walsall,	WS2 8QR	1	2
9	WAL_0204	On Raleigh Street, adjacent to 168 Pargeter Street, Walsall,	WS2 8QR	1	2
10	WAL_0205	On Pargeter Street, adjacent to 1 Cairns Street, Walsall	WS2 8QR	1	2
11	WAL_0209	On Reedswood Gardens, adjacent to 108 Bentley Lane, Walsall	WS2 8ST	1	2
12	WAL_0212	On Gladstone Street, outside 102 Hospital Street, Walsall,	WS2 8BL	1	2
13	WAL_0213	On Hospital Street, adjacent to 2 Lewis Street, Walsall,	WS2 8JP	1	2
14	WAL_0214	Opposite 33 Granville Street, Willenhall,	WV13 1DL	1	2
15	WAL_0219	On Temple Rd, Adjacent to 38 St Anne's Road, Willenhall,	WV13 1ET	1	2
16	WAL_0222a	On Elm St, adjacent to Barcroft Primary School Staff Car Park, Willenhall	WV13 1NB	1	2
17	WAL_0227	Outside No. 10 -19 Chillenden Court, Mill Street, Willenhall,	WV13 2DS	1	2
18	WAL_0229a	On Orchard Close, adjacent to 9 Orchard Road, Willenhall,	WV13 2EN	1	2
19	WAL_0277	65 Bell Street, Darlaston,	WS10 8EN	1	2
20	WAL_0280	On Dorsett Road, adjacent to 22 Carisbrooke Road, Darlaston,	WS10 0JE	1	2
21	WAL_0281	Opposites 65 King Edward Street, Darlaston,	WS10 8TN	1	2
22	WAL_0253	Opposite 36 Marlborough St, Bloxwich,	WS3 2HY	1	2
23	WAL_0269	Gable end of 471 Bloxwich Road, Walsall,	WS3 2XA	1	2
24	WAL_0106	14 Sally Ward Dr, Walsall	WS9 9JZ	1	2
25	WAL_0110b	1 Stackhouse Close, Walsall,	WS9 9JY	1	2
26	WAL_0068	34 Sunnymead Way, Streetly, Sutton Coldfield	B74 2JW	1	2
27	WAL_0003	16 Lincoln Road, Walsall,	WS1 2EB	1	2
28	WAL_0012	Opposite 184 Sandwell Street, Walsall,	WS1 3EQ	1	2
29	WAL_0020	Adjacent to 39 Westbourne Road, gable end on Eastbourne Street, Walsall,	WS4 2JD	1	2
30	WAL_0005	47 Holtshill Lane, Walsall,	WS1 2HZ	1	2
31	WAL_0019b	Opposite 20 Butts Road, Walsall,	WS4 2AR	1	2
32	WAL_0045	Opposite 84 Jesson Road, Walsall,	WS1 3BA	1	2
33	WAL_0242	159-169 Brereton Road, Willenhall,	WV12 5LD	1	2
34	WAL_0179	Opposite 10 Whitehall Rd, Walsall	WS1 4AP	1	2
35	WAL_0140	28 Bonnington Way, Pheasey,	B43 7UR	1	2
				35	70

Appendix B: Map of the current sites for on-street residential chargepoint installation.

