

# SALISBURY CITY COUNCIL

**Subject** : Electric Vehicle Charging Points  
**Committee** : Environment & Climate Committee  
**Date** : 3 July 2023  
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## 1. Report Summary:

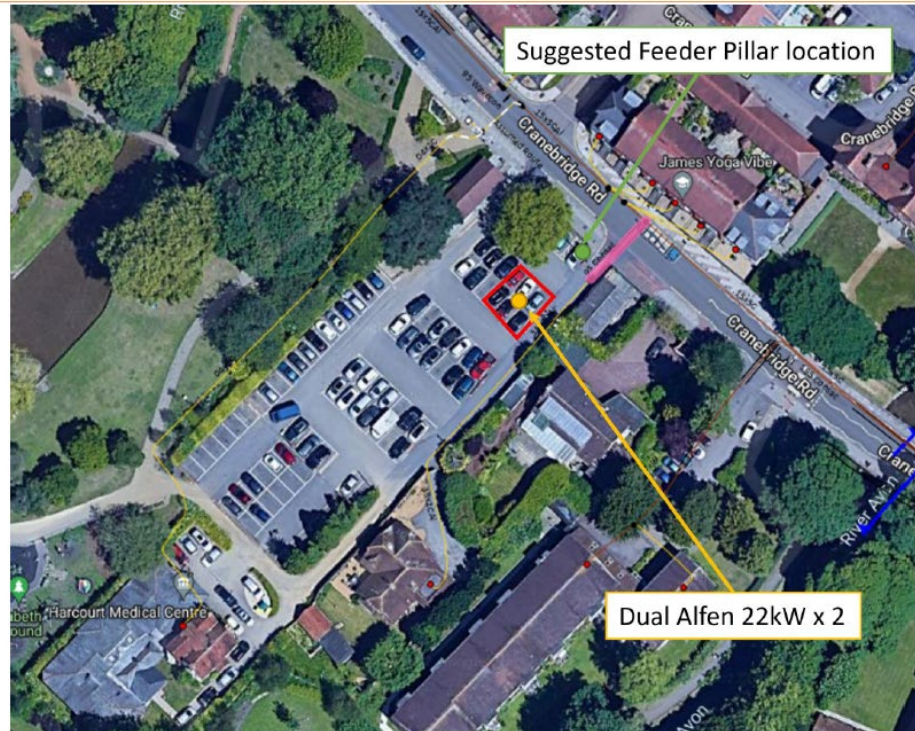
1.1. This report and its background paper provides:

- 1.1.1. An overview of the growing number of Electric Vehicles (EV) and EV charging points across Wiltshire and neighbouring counties (see attached report; Zest - EV Insight Support Document – Salisbury City Council (SCC))
- 1.1.2. An outline cost for the installation of 4 EV charging points in Lush House car park.

## 2. Proposed Site - Lush House

2.1. SCC approached Joju to carry out a free feasibility study into the opportunity to provide public EV charging for residents and visitors at Lush House car park via the Wiltshire Council (WC) EV contract.

Site Name	Address	Grid ref
Lush House Car Park	Cranebridge Road, Salisbury SP2 7TD	51.0679108 -1.800661



2.2. The study includes details on costs, back-office provision, technology, service and maintenance and funding options.

- 2.3. The proposal would see 6 standard bays, reduced to 4 accessible EV charging bays. Records indicate that the car park is very rarely at capacity, so income, is unlikely to be affected with the loss of the bays.
- 2.4. All costs are dependent on final assessment following site visits.

### 3. Projected Capital Cost

- 3.1. The total capital cost to install 4 EV charging points is projected to be £14,599.11. If SCC was successful in applying for a OZEV grant, £8,759.46 (60%) of the total cost would be covered. There are then two possible options for grant funding from WC.
- £2,500.00 grant from WC - They cover annual back office and maintenance fee for 5 years but keep any profits. The total capital cost to SCC would be £3,339.64.
  - £1,000.00 grant from WC - SCC pay the annual back office and maintenance fee but also keep any profits generated from charging. The total capital cost to SCC would be £4,839.64.
- 3.2. Further costs will include a Traffic Regulation Order (TRO). This is to enable enforcement of EV vehicles only parking in the bays and extending the maximum hours of stay at the car park from 3 to 4 hours (this is a requirement of the OZEV funding) The cost of the TRO is estimated at £3,000.00.

The table below illustrates the estimated capital cost to SCC for the project:

	Option 1	Option 2	Option 3	Option 4
4 EV Charging Points	No grants with TRO	OZEV Grant with TRO	OZEV with TRO & Wiltshire Council Grant of £2500.00	OZEV with TRO & Wiltshire Council Grant of £1000.00
Total estimated capital cost to SCC	£17,599.11	£11,759.46	£6,339.64	£7,839.64

- 3.3. Installation costs include equipment, civil works, bay marking, impact protection and signage.
- 3.4. If SCC agree the £2,500.00 WC option, they would fund the back office (£576 per annum) and maintenance (£300.00 per annum) for 5 years but keep any profits. If SCC agree any of the other options, SCC would have the responsibility of funding back office and maintenance costs but would keep any profits.

	£2500.00 Grant	All Other Options
Total 5 year back-office cost to SCC	£0	£2880.00
Total 5 year maintenance cost to SCC	£0	£1500.00
Total 5 year back-office & maintenance cost to SCC	£0	£4,380.00

3.5. It should be noted that maintenance costs do not cover incidents of vandalism etc, so any repair costs would need to be covered by SCC as part of its repairs and maintenance budget.

#### 4. Estimated Green House Gas Reduction

4.1. The table below outlines how the installation could contribute to the reduction of greenhouse gases in the city.

Site	Supply	Type of EVCP	No. EVCP Sockets	Estimated kwhs (Yr1)	NOx g saved per annum vs 50% gasoline and 50% diesel cars	PM10 g saved per annum vs 50% gasoline and 50% diesel cars	CO2 kg saved per annum vs 50% gasoline and 50% diesel cars
Lush House Car Park	New	2 x Alfen Eve 22kW 1FC Dual Proline	4	7216.00	11878.13	204.63	6920.37

#### 5. Recommended Charge Points

- 5.1. 2x22kw AlfenEve Dual socket single feeder cable chargepoints installed back-to-back on Alfenposts with signage and bay marking for 4 parking bays. When both sockets are in use synchronous charging allows 11kw per socket.
- 5.2. They are fed from new supply of: 69kVa, 100amp, 3 phase.
- 5.3. They are tested with every electric car on the road and certified by DEKRA and fitted with Type 2 sockets, which is the most commonly used socket, and most EV owners will have a cable with a Type 2 charger-side.
- 5.4. They meet the OZEV requirements and is therefore eligible for grant funding.
- 5.5. They are made from stainless steel with IK10 and IP54 rating meaning that it is vandal-resistant (withstanding up to 20 joules of impact energy).
- 5.6. They feature unambiguous icons and an integrated card reader, which means starting and stopping charging sessions is simple.



## 6. Recommendations:

It is recommended that the Committee:

- 6.1. Determine if 4 EV Charging Points should be installed at Lush House Car Park, noting that capital costs could be met from the existing Climate Change Actions budget line.
- 6.2. If yes, determine which option for officers to pursue as illustrated in 3.2, noting that if option 3 (£2500.00 grant from WC is not the preferred option), then maintenance costs will need to be provided in future budgets.

8. **Wards Affected:** The car park is situated in St Edmunds, but car park users come from across all wards.

9. **Background Papers:** None

## 10. Implications:

- 10.1. **Financial:** As detailed in the report.
- 10.2. **Personnel:** N/A
- 10.3. **Environmental Impact:** As detailed in this report.
- 10.4. **Equalities Impact Statement:** As detailed in this report.