

Subject: Electric Vehicle Charging – Council Owned Car Parks

Report to: Economic Development Committee 17th February 2020
Policy & Resources Committee 17th March 2020

Report by: Miranda Lee, Head of Customer Services

SUBJECT MATTER/RECOMMENDATIONS

To provide an update and overview of the project to implement a number of electric vehicle charge points across council owned car parks

Recommendations

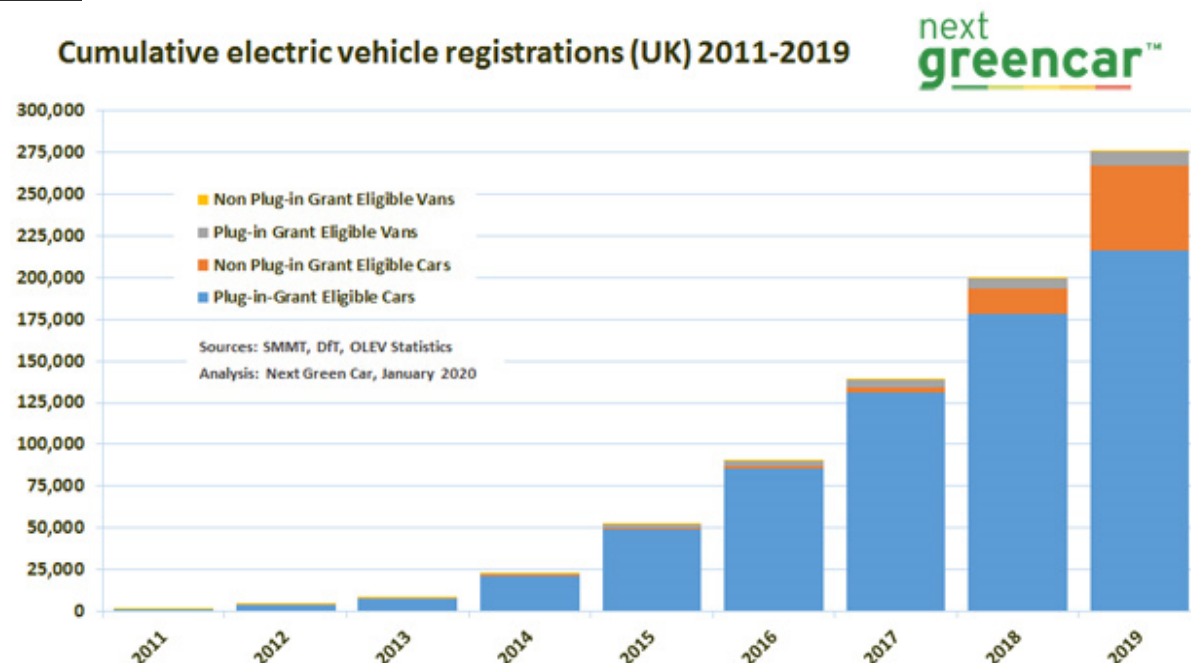
The committee is asked to:

- 1) note the progress and success of the Council's application to the Office for Low Emission Vehicles
- 2) endorse the planned implementation of Electric Vehicle Charge Points within the identified council owned car parks
- 3) approve next steps as outlined in section 6 of the report

1. BACKGROUND

- 1.1 The requirement for electric (EV) & hybrid vehicles (PHEV) charging continues to evolve at pace across the country. With car manufacturers focussing their resources on increasing the development and sales of electric and hybrid cars, Next Green Car reports that according to data available as at December 2019, plug-in models represent 6.3% of the UK car market.

Table 1



Source: SMMT, OLEV, DfT Statistics; Analysis: Next Green Car, January 2019

- 1.2 The Office for Low Emission Vehicles (OLEV) has an objective that by 2050 almost every car and van in the UK will be a zero emission, with the UK at the forefront of their design, development and manufacture, making the UK one of leaders in zero emission vehicle related inward investment in the world. This is further confirmed with the recent government announcement that plans in place to ban the sale of petrol, diesel and hybrid new cars will be brought forward from 2040 to 2035 if this target is to be achieved.
- 1.3 With a number of businesses including larger retailers, supermarkets and holiday resort centres continuing to invest in the provision of EV charging, there has been some concern that a large number of local authorities are lagging behind in their planning for the provision of EV charging within their towns and communities.
- 1.4 Not necessarily the case for Great Yarmouth as we have taken the initiative to incorporate a Rapid Charger Hub within the Fullers Hill Car Park following a successful consortium bid to Highways England to expand the Rapid Recharge Network across the UK. This was installed in May 2019 and has had 100 different users benefit from using the charge point in the first 8 months of operation.

2. OPPORTUNITIES

- 2.1 In January 2018 OLEV provided guidance for local authorities on grants available to provide residential on-street chargepoints for plug-in electric vehicles. Local authorities were invited to apply for funding to part cover the procurement and installation of EV charge points, however, the criteria specified this was mainly for the provision of EV chargepoints for on-street only which is likely to be the reason that the grant available has not been widely applied for. However, the guidance did state that consideration would be given to applications and business cases for provisions for off-street.
- 2.2 The primary purpose of the grant is to cater for the current/future needs of our residents, meet the needs of our residents and visitors. In terms of our residents, recognising that in order to provide confidence and increase in EV take-up, assurances would need to be in place to cater for a high number of households without access to a driveway or garage, therefore, lacking the ability to charge an EV at home.
- 2.3 When considering the future needs and of our residents, we identified further benefits of EV provision enabling residents from across the borough to have the opportunity to park and charge in locations not necessarily near to their residence but at a time when they are visiting the town locations for work, shopping, leisure or entertainment purposes.

3. PROPOSALS & APPLICATION FOR FUNDING

- 3.1 In October 2019 Great Yarmouth Borough Council submitted an application for funding to OLEV with the assistance of the Energy Saving Trust for the provision of a number of dual socket EV units to be installed across a number of council owned car parks. OLEV provide an overall sum of funding available in each financial year. The conditions of such funding, if granted, require the procurement, installation and commission of the EV charge units within the same financial year.
- 3.2 Because of this we needed to consider power connectivity and any associated Highway access requests lead in times that may be necessary. Our application, therefore, reflects what we could achieve in this financial year which would deliver the following:

<u>Location</u>	<u>Number of EV Dual Socket Units</u>	<u>Number of EV Spaces</u>
Market Place Car Park	2	4
Beach Coach Station	2	4
Greyfriars Car Park	2	4
Euston Road Car Park	2	4
*St Nicholas Car Park	2	4

Main grant conditions:

- 3.3 If application and business case approved OLEV will grant a maximum of 75% of the capital spend in relation to the procurement, installation and commissioning of the charge points.

As a minimum, residents must be provided with access to park for free overnight all year whilst they charge their vehicle.

**St Nicholas car park is a seasonal long stay car park, however, plans are in place to incorporate a flexible segregated area of the car park enabling the EV charge point locations to be accessible all year round via Dickens Avenue.*

Grant Decision:

- 3.4 On 29th January 2020, OLEV announced our application had been successful and offered an award of £67,220 which represented the maximum award of 75% of capital costs.

4. PROCURMENT

- 4.1 In accordance with the Council's Standing orders, the procurement for a supplier has been selected from the available ESPO Framework 636 for the EV charge solution including the supply, install and commissioning of EV charge units and the hosting and operation of the tariff software.
- 4.2 In line with the framework terms and conditions, the council's chosen supplier is BMM Energy Solutions, with Vattenfall providing 100% renewable energy.

- 4.3 The ability to work in partnership incorporating 100% renewable energy is an exciting opportunity to progress with. The council has sought a co-investment partnership which will deliver a 25% funding contribution to the delivery of this project.

Specification

- 4.4 The EV Charge Units (EVCPs) are EVE Double Pro-Line 22KW dual socket fast charge solution. Typically, a fast charge unit can provide a recharge within 4 to 6 hours. The specification data sheet is included in Appendix 1.

The EVCPs will have a flexible dual tariff 'pay as you go' capability and we anticipate a standard daytime tariff will be supplemented with a slightly lower overnight rate.

Users will be able to download the mobile APP or apply for a RFID key.

5. FINANCE

- 5.1 This project will be fully funded by 75% of funding confirmed by OLEV, and the remaining 25% contribution from our chosen supplier.
- 5.2 There may be some minor revenue spend in relation to the segregation of St Nicholas Car Park, however, this will be funded from within existing Repair & Maintenance budgets.
- 5.3 This project has secured 100% funding and an operating model with no ongoing revenue costs for the council with the potential for an additional revenue income stream under profit share arrangements.

6. NEXT STEPS

- 6.1 Necessary site surveys and finalisation of the specific parking space locations to be assigned as charging bays is already underway.
- 6.2 The implementation of these charge points ready for commission has an aim to be completed by 31st March 2020, however, OLEV have recognised that timescales are tight meaning it is possible locations may not be fully commissioned until mid April 2020.
- 6.3 OLEV funding for 2020/21 has now been confirmed. The council intends to submit a further application for a further 6 units to be located within King Street Car Park, Gorleston High Street Car Park and the new leisure centre car park (pending project timescales) on Great Yarmouth seafront.

7. RECOMMENDATIONS

- 7.1 The committee is asked to:

- 1) note the progress and success of the Council's application to the Office of Low Emission Vehicles
- 2) endorse the planned implementation of Electric Vehicle Charge Points within the identified council owned car parks
- 3) approve next steps as outlined in section 6 of the report.

Areas of consideration: e.g. does this report raise any of the following issues and if so how have these been considered/mitigated against?

Area for consideration	Comment
Monitoring Officer Consultation:	
Section 151 Officer Consultation:	Yes
Existing Council Policies:	Contract Standing Orders
Financial Implications (including VAT and tax):	Yes
Legal Implications (including human rights):	Procurement
Risk Implications:	
Equality Issues/EQIA assessment:	
Crime & Disorder:	
Every Child Matters:	



Eve Double Pro-line

Iconic design and state-of-the-art charging technology

The Eve Double Pro-line is Alfen's smart charging solution with two sockets, optimally suited for private and semi public locations. In 2017, Alfen redesigned the Eve Double Pro-line from the ground up taking into account the latest in charging technology and the needs of EV drivers. This unit has a large display screen, improved user interface, and a new high-tech, reliable hardware platform including several features along with easy configuration and operation.

Eve Double Pro-line

Full colour 7" LED Display

RFID card reader

Type 2 socket

Solid, durable housing

Optional steel mounting pole



The charging station



Built in protection

The Eve Double Pro-line is equipped with two RCDs as well as 6mA DC detection. This built-in protection allows for a more cost-efficient installation.



Easy configuration

An externally accessible Ethernet Port makes it easy to connect the Eve Double Pro-line to a PC and configure the charge point with the user friendly Installer.



Smart Charging

With its redesigned soft and hardware, the Eve Double Pro-line supports various features such as smart charging networks, load balancing and OCPP 1.6.

Specifications

Charging capacity per outlet	3.7kW (16A, 230V), 7.4kW (32A, 230V), 11kW (16A, 400V), 22kW (32A, 400V)	Authorisation	Plug & Charge, RFID
Outlet	Dual type 2 socket	Colour	Front RAL9016 (Traffic white) Rear RAL7043 (Traffic grey)
Input	Single or dual feeder cable	Energy (kWh) meter	MID approved, suited for payments
Norms and guidelines	IEC 61851-1 / -22 (2017)	Dimensions (LxWxD)	590 x 338 x 230mm

For more information, please visit: www.alfen.com

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