
Report To:	Environment and Regeneration Committee	Date:	4 September 2014
Report By:	Acting Corporate Director Environment, Regeneration and Resources	Report No:	ERC/ENV/IM/14.
Contact Officer:	Robert Graham	Contact No:	4827
Subject:	Electric Vehicle Charging Infrastructure Project		

1.0 PURPOSE

- 1.1 The purpose of this report is to provide Committee with details of the offer and acceptance of grant funding for Electric Vehicle Charging Infrastructure including the estimated costs of installing the units and the annual revenue implications.

2.0 SUMMARY

- 2.1 On 27 May 2014 Transport Scotland offered Inverclyde Council a grant for the supply and installation of Electric Vehicle Charging Infrastructure with connection to its associated back office facility to a total value of £78,000.
- 2.2 Inverclyde Council has been approved funding to install 5 charging points.
- 2.3 Confirmation of acceptance of the grant was required by 4 July 2014.
- 2.4 A condition of the grant is that the installation must be complete by 31 March 2015.
- 2.5 It is also a requirement that the infrastructure is maintained in a serviceable condition and is available for use for at least 3 years, from the point of installation, unless given specific permission otherwise by Transport Scotland or the Office for Low Emission Vehicles.

3.0 RECOMMENDATIONS

- 3.1 That Committee note the offer and acceptance of the grant and the proposals to site the Electric Vehicle Charging Infrastructure.

Ian Moffat
Head of Commercial and Environmental Services

4.0 BACKGROUND

- 4.1 On 27 May 2014 Transport Scotland offered Inverclyde Council a grant for the supply and installation of Electric Vehicle Charging Infrastructure with connection to its associated back office facility to a total value of £78,000.
- 4.2 Confirmation of acceptance of the grant was required by 4 July 2014.
- 4.3 A condition of the grant is that the installation must be complete by 31 March 2015 and that it is maintained in a serviceable condition and is available for use for at least 3 years, from the point of installation, unless given specific permission by Transport Scotland or the UK Office for Low Emission Vehicles.
- 4.4 The grant is for the installation of the infrastructure that will provide charging points for electric vehicles.
Revenue costs will be recovered from the levy set for each electric charge used.
- 4.5 Inverclyde Council has been approved funding to install 5 charging points.
1 No. Rapid Triple Charger (50kW). Three phase
3 No. Fast Chargers (22kW). Three phase
1 No. 7 kW Charger. Single phase

Two of the 22kW chargers are being funded by the Office for Low Emission Vehicles (OLEV).
- 4.6 Charging units are expected to remain in a safe, operable condition for a minimum of 10 years from the time of installation.
- 4.7 The offer specifies that the 50kW charging unit should be sited in Gourrock.
- 4.8 Transport Scotland have entered into a contract with Charge Your Car Ltd to provide a single back office for the whole of Scotland to manage the EV charging infrastructure as part of the programme. It is critical for the performance of each charging unit in operation and the system overall to be able to communicate with the back office to activate the unit and record transactional data.

5.0 PROPOSALS

- 5.1 An initial survey will be carried out to ensure that the back office will be able to communicate with each of the charging units by mobile telecommunications.
- 5.2 The proposed sites for the charging units are:

1 No. x 50kW charging unit - Kempock Street Public Car Park, Gourrock
1 No. x 22kW charging units - Port Glasgow Public Car Park adjacent to Health Centre
1 No. x 22kW charging units - Cargill Centre Public Car Park, Kilmacolm
1 No. x 22kW charging units - Cathcart Street Public Car Park, Greenock
1 No. x 7kW charging unit - Pottery Street depot, Greenock

6.0 IMPLICATIONS

Finance

- 6.1 Finance Services have been consulted on this report and support the implications as detailed in 6.2 below.

6.2

Financial Implications:

See appendix 1 for a breakdown of the estimated installation costs and revenue costs.

One off Costs

Cost Centre	Budget Heading	Budget Years	Proposed Spend this Report £000	Virement From	Other Comments
	Grant funding	14/15	72.5		Grant funded

Annually Recurring Costs/ (Savings)

Cost Centre	Budget Heading	With Effect from	Annual Net Impact £000	Virement From (If Applicable)	Other Comments
	Revenue	1 April 2015	15.3		
	Recharge	1 April 2015	(15.3)		Income generated from EV charging rates.

Legal

6.3 Legal and Property Services have confirmed that there are no implications for their Service.

Human Resources

6.4 This report has no implications for Human Resources.

Equalities

6.5 Siting of the charging units will ensure that spaces will comply with DPPP standards.

Repopulation

6.6 This report has no impact on repopulation.

7.0 CONSULTATIONS

7.1 The Head of Legal and Property Services has been consulted on this report.

7.2 The Head of Finance Services has been consulted on this report.

8.0 BACKGROUND PAPERS

8.1 None.

Appendix 1

Electric vehicle Charging

Cost Breakdown

	Site 1	Site 2	Site 3	Site 4	Site 5	all	Notes
Charging Equipment supply costs	£29,500.00	£2,609.00	£2,609.00	£2,609.00	£2,392.00	£0.00	
delivery charges	£500.00	£500.00	£500.00	£500.00	£500.00	£0.00	
Charging Equipment install costs	£1,000.00	£1,000.00	£1,000.00	£1,000.00	£500.00		
corporate branding							Not quoted by supplier additional cost tba
Electrical power DNO cost	£1,700.00	£1,700.00	£1700.00	£1700.00	£0.00		
Electrical Power Pillars and cables	£3,000.00	£3,000.00	£3000.00	£3000.00	£500.00		subject to site survey and detailed checks
Barriers supply and erect	£95.00	£95.00	£95.00	£95.00	£95.00		
Signs supply and erect	£160.00	£160.00	£160.00	£160.00	£160.00		
Road Markings apply	£800.00	£800.00	£800.00	£800.00	£800.00		
Temp traffic order						£500.00	
3G signal analyser						£300.00	
test and commission electrical	£100.00	£100.00	£100.00	£100.00	£100.00		
test and commission CYC back office						£0.00	included above
	£36,855.00	£9,964.00	£9,964.00	£9,964.00	£5,047.00	£800.00	
						£72,594.00	

Estimated Annual (Revenue) Costs

3G sim / year	£108.00	£108.00	£108.00	£108.00	£108.00		£27 / quarter 5gb data
Electrical energy	£2,737.50	£1,642.50	£1,642.50	£1,642.50	£1,095.00		1 vehicle usage per day full charge
maintenance / annual safety check	£200.00	£200.00	£200.00	£200.00	£200.00		3 year plan 48hr response
warranty plan Yr 3 onwards	£1,100.00	£100.00	£100.00	£100.00	£100.00		first 2 years are covered

Vandalism	£500.00	£500.00	£500.00	£500.00	£200.00		at engineer rates
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Back Office Charges (all ex VAT)

Transaction Fee (£0.30p)	£109.00	£109.00	£109.00	£109.00	£109.00		Based on 363 charges per year
Banking Fee (2.95% of cost of charging session)	£107.09	£85.67	£85.67	£85.87	£85.67		Based on site 1 charges of £10.00 per session and sites 2-5 charges of £8.00 per session
Merchant Fee (1.5% of cost of charging session)	£54.45	£43.56	£43.56	£43.56	£43.56		Based on site 1 charges of £10.00 per session and sites 2-5 charges of £8.00 per session

£4,916.04 £2,788.73 £2,788.73 £2,788.73 £1,941.23 £0.00
 £15,223.46