

Electric Vehicle Infrastructure Fund Local Authority Workshop

11th and 18th May 2022



SCOTTISH FUTURES TRUST

EV Infrastructure Fund

- Intends to draw in & smooth out commercial investment <u>across Scotland</u> (aligned with draft vision) half of £60m funding to be leveraged from private sector over 4 years.
- Envisage that it is likely to be last national public EV infrastructure funding programme provided by Scottish Ministers anything in future would be very focused.
- Supports local authorities to develop & deliver partnerships with private sector in areas where commercial investment on its own would be unviable.
- Neutral on who owns and operates charge points (not about expanding CPS) can be achieved through a variety of potential owner/operator models.

EV Infrastructure Fund - Key Messages

- Collaboration strongly encouraged
- Tariffs in place for all local authority retained EVCPs
- Project Funding informed by Strategy & Expansion Plans
- Funding to enable investment where private investment on its own is not viable
- Evidence opportunities to mobilise private sector investment
- ChargePlace Scotland back office No central funding beyond current contract
- No new top-ups to ORCS funding from April 22

EV Infrastructure Fund - Funding Available



£30m Programme Funding over Four Years Leverage at least £30m from the Private Sector

Funding Stream	Strategic Planning and Project Development	Project Delivery
Amount	£140k per Local Authority over four years	Balancing amount from £30m supporting delivery
Profile	£60k available in 2022/23 for early planning	Profiled over Four Years - £300K de minimis level
Outputs	Strategy, Expansion Plan, Procurement, Surveys, etc.	Outcomes & Priorities and enable a Just Transition
Allocation	Additional in-house costs & External Support	Where private investment on its own not viable

EV Infrastructure Fund – Programme Timetable



Spring to Winter 202	2	By Spring 2023	From 2023 to 2026					
Local Authority Strategies & Expansion Plans	Confirm Funding	Enabling and Procurement	Delivery					
Local Authority Tariffs i								
ChargePlace Scotland back office contract – end of funding – Spring 2025								

Electric Vehicle Infrastructure Fund SFT Support - Strategies & Expansion Plans



Strategy and Expansion Plan Template									
Part 1 - Strategy	Part 2 – Expansion Plan								
Local Outcomes &	Economic	Commercial	Financial	Management					
Priorities	Case	Case	Case	Case					
Accessibility	Preferred Scope								
Reliability	Costs and Funding								
Affordability	Project Pipeline								
Just Transition	Delivery Models								
Community Benefits	Routes to Market								
Active Travel	Implementation								

Electric Vehicle Infrastructure Fund SFT Support - Data & Analytics

The purpose of this solution is to enable local authorities in Scotland to have access to a set of consistent areas that help to determine the need for public on-street infrastructure, where commercial opportunities to partner exist and to have a consistent dataset to aid future EV strategies. It is not intended to replace a council's own EV Strategies and Policies.



Summary video available: bit.ly/3PbCUV8

Electric Vehicle Infrastructure Fund SFT Support - Delivery Options

Risk/Responsibility	Traditional Local Authority Owner Operator	Leasing Sites to Charge Point Operators	Multi-Year Concession Type Contract		
Scope – Number & Capacity	PUBLIC	PUBLIC	PUBLIC		
Existing Assets	INCLUDED	EXCLUDED	INCLUDED or EXCLUDED		
Contract Term – Length of Lease or Concession	N/A	PUBLIC	PUBLIC		
Sites – Identification & Provision	PUBLIC	PUBLIC	PUBLIC or PRIVATE		
Permitting – Planning approvals	PUBLIC	PRIVATE	PRIVATE or SHARED		
Grid Connections - Time & Cost	PUBLIC	PRIVATE	PRIVATE or SHARED		
Installation – Time, Cost & Quality	PRIVATE	PRIVATE	PRIVATE		
Operating – Maintenance & Repairs	PUBLIC	PRIVATE	PRIVATE		
Insurance – Costs & Availability	PUBLIC	PRIVATE	PRIVATE		
Technology – Standards & Obsolescence	PUBLIC	PRIVATE	PRIVATE		
Customer Service – Availability & Helpdesk	PUBLIC	PRIVATE	PRIVATE		
Change in Regulations – Compliance & Cost	PUBLIC	PRIVATE	PRIVATE or SHARED		
Financing – Cost and Availability	PUBLIC	PRIVATE	PRIVATE (ex-GRANT)		
Tariff Setting	PUBLIC	PRIVATE	PRIVATE or SHARED		
Income Generation – Uptake & Utilisation	PUBLIC	PRIVATE	PRIVATE or SHARED		
Asset Ownership – Below & Above Ground	PUBLIC	PRIVATE or SPLIT	PRIVATE or SPLIT		

Electric Vehicle Infrastructure Fund SFT Support - Financial Feasibility Model

EVCP No. 1 1 1 1 1 1	Primary Current AC or DC AC DC AC AC AC AC AC AC AC AC C C C	Max kWh Cutput (kWh) 22.0 kW 7.0 kW 7.0 kW 7.0 kW 22.0 kW 7.0 kW 7.0 kW 7.0 kW 7.0 kW	Concurrent DC kWh Output (kW) 50.0 kW 50.0 kW	Concurrent DC Sockets	Concurrent AC MWh Output (KW) 22.0 KW 3.5 KW 7.0 KW 3.5 KW 7.0 KW 22.0 KW	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	EVCP Configuration ABC 22kW Dual ABC 7kW Dual Cutlet ABC 7kW Dual Cutlet		Electricity utilisation (KWh / pa) 1,000 KWh 35,000 KWh 7,500 KWh 5,000 KWh 5,000 KWh 50,000 KWh	£153 £153	Laint Costs (£ / pa) £1.600 £1.600 £1.600 £1.600 £1.600 £1.600 £1.600 £2.350	Forecast Cost (Enabling) (E) E0 E0 E0 E0 E0 E0 E0	Forecast Cost (EVI + Install) (E) EI EI EI EI EI EI EI EI EI		t Existing Cost (Enabling) (£) E0 £4,500 E0 £4,500 E0 £4,500 E0 £4,500 E0 £4,500 E0 £4,500 E0 £4,500 E0 £4,500	0 £12,000 0 £40,000 0 £12,000 0 £12,000 0 £12,000 0 £12,000	Existing Cost (DNO) (E) 58,000 528,000 525,000 522,500 522,500 522,500 522,500 522,500 522,500 522,500 522,500 522,500 500 500 500 500 500 500 500 500 500	Year Capital cost inurred Year - - - - - - - - - - - - - - - - - - -	Useful life of existing EV charge (Years)	Useful life of EV asset (rounded (Years) 10 8 10 9 10 5 10 10 10 10	
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e.g., £175k subsidy mobilises £350k private capital. 2:1 Private : Public Ratio

Summary	Set DC Tariff	f Set AC	C Tariff Set Capital Grant
KEY PROJECT LEVERS		Total	unit
Grant, Tariff, Concession and retu	<u>urn</u>		
All checks ok		ОК	
No. of existing EV charge points	5	12 units	units
No. of new EV charge points		18 units	units
Key financial input scenario		Base	scenario
Capital funding (if applicable)		174,885	£
AC Consumer tariff		0.26	£ / kWh
DC Consumer tariff		0.44	£ / kWh
Length of operation		10	< > years
Total F utilisation		365,500	kWh
mcity utilisation sensitivity		-	%
Projected utilisation growth rat	e	5.00%	%
Total Electricity utilisation		365,500	kWh
Total estimated capacity		4,493,880	kWh
Utililsation as % of capacity		8.13%	%
Target WACC		8.50%	%
		8.50%	%
Private sector / TS capital ratio		2.01	ratio
-			unit
	KEY PROJECT LEVERS Grant, Tariff, Concession and retu All checks ok No. of existing EV charge points No. of new EV charge points Key financial input scenario Capital funding (if applicable) AC Consumer tariff DC Consumer tariff Length of operati Total Electrony utilisation Cancity utilisation sensitivity Projected utilisation growth rate Total Electricity utilisation Total estimated capacity Utililsation as % of capacity Target WACC	Set DC Tariff KEY PROJECT LEVERS Grant, Tariff, Concession and return All checks ok No. of existing EV charge points No. of new EV charge points No. of new EV charge points Key financial input scenario Capital funding (if applicable) AC Consumer tariff DC Consumer tariff DC Consumer tariff Length of operation Total Electricity utilisation ancity utilisation growth rate Total Electricity utilisation Total estimated capacity Utilisation as % of capacity Utilisation as % of capacity	Set DC TariffSet ACKEY PROJECT LEVERSTotalGrant, Tariff, Concession and return All checks okOKNo. of existing EV charge points12 unitsNo. of new EV charge points18 unitsKey financial input scenario Capital funding (if applicable)BaseAC Consumer tariff0.44Length of operation365,500Total Electricity utilisation365,500Total Electricity utilisation365,500Total estimated capacity4,493,880Utililsation as % of capacity8.13%Target WACC8.50%Private sector / TS capital ratio2.01





Electric Vehicle Infrastructure Fund Local Authority workshop

Q&A Session



EVIF Website: bit.ly/3vY4tK0

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