

Climate Change Impact Assessment Summary

Project/Proposal Name	Future for the provision of electric vehicle charging points	Portfolio	City Futures
Committee	Transport, Regeneration and Climate	Lead Member	
Strategic Priority	Clean Economic Growth	Lead Officer	Kate Martin
Date CIA Completed		CIA Author	Jenny Wood
		Sign Off/Date	17/01/23

Project Description and CIA Assessment Summary	<p>This report follows on from action contained within the Transport and Regeneration Committee report, Electric Vehicle Public Charging Infrastructure Update and Short-Term Action Plan, 21st September 2022, to develop a procurement proposal for a commercial partner(s) to work with Sheffield City Council to deliver EV charging infrastructure through a concession agreement. Under the proposal:</p> <ul style="list-style-type: none"> • An external provider would be appointed to support SCC in developing strategic funding bids for a commercially sustainable electric vehicle charging network • The external provider would carry out site selection and feasibility, invest in, own and be responsible for public electric vehicle charging points (including operation and maintenance) rolled out in Sheffield • Ownership of the underground infrastructure, where appropriate, would return to SCC at the end of the contract
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Rapid Assessment	Does the project or proposal have an impact in the following areas? Select all those that apply. Only complete the sections you have selected here in the assessment.		
Buildings and Infrastructure	Yes	Influence	Yes
Transport	Yes	Resource Use	Yes
Energy	Yes	Waste	No
Economy	Yes	Nature/Land Use	No
		Adaptation	Yes

Full Assessment

Category	Impact	Description of Project Impact	Mitigation Measures	Mitigated Score	Procurement Action Required?	Proposed KPI/Measure
Buildings and Infrastructure	Construction	The proposed procurement will enable the installation of public electric vehicle chargepoints for residents, businesses and visitors to the City (although in itself will not deliver this). Associated with future construction will be embodied carbon. Few studies have looked at the difference between technologies / approaches.	Within the procurement process, consideration will be given to including quality questions on the principles of sustainable design and construction, including how carbon reductions within chargepoint lifecycles will be maximised (design, manufacture, transport installation, operation and decommissioning) and due regard to the sourcing of energy supply (low carbon preference)	9	Yes	To include carbon reporting if possible
	Use	The proposed procurement will enable the installation of public electric vehicle chargepoints for residents, businesses and visitors to the City (although in itself will / not deliver this) with associated energy supply / use.	Due regard should be taken to the sourcing of the energy supply during procurement with preference for low carbon	2	Yes	Energy use
	Land use in development	N/a				

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Transport	Demand Reduction	N/a				
	Decarbonisation of Transport	In order to meet decarbonisation targets all vehicles will need to switch to electric or hydrogen. The Pathway to Zero Carbon report (the 'Arup report') highlighted the need for catalysing charging infrastructure and solutions that remove significant barriers to the uptake of EVs. This project will enable this.		2	No	
	Public Transport	N/a				
	Increasing Active Travel	N/a				

Energy	Decarbonisation of Fuel	The Council's electric vehicle charging points currently provide electricity generated via renewables	If this can be maintained, or supported when moving to a concession contract should be investigated.	2	Yes	
	Demand Reduction/Efficiency Improvements	N/a				
	Increasing infrastructure for renewables generation	N/a				

Economy	Development of low carbon businesses	The roll out of electric vehicle charging points across Sheffield should contribute to the development of the green economy, including supporting green jobs and skills.	Consideration to be given within the procurement process	5	Yes	
	Increase in low carbon skills/training	N/a				
	Improved business sustainability	The roll out of electric vehicle charging points across Sheffield will contribute to the ability of businesses / fleet operators being able to switch to electric vehicles, supporting longer term sustainability		2	No	

Influence	Awareness Raising	The visible roll out of electric vehicle charging points across Sheffield will raise awareness of the potential to switch to electric vehicles and provide reassurance that there will be the ability to charge.	Include quality question around promotion of facilities in the City to raise awareness	2	Yes	
	Climate Leadership	N/a				
	Working with Stakeholders	N/a				

Resource Use	Water Use	N/a				
	Food and Drink	N/a				
	Products	N/a				
	Services	The procured provider will be providing ongoing maintenance and operation of the chargepoints	Consider quality question around location of parts / manufacture of equipment	5	Yes	

Waste	Waste Reduction	N/a				
	Waste Hierarchy	N/a				
	Circular Economy	N/a				

Nature/Land Use	Biodiversity	N/a				
	Carbon Storage	N/a				
	Flood Management	N/a				

Adaptation	Exposure to climate change impacts	N/a				
	Vulnerable Groups	N/a				
	Just Transition	The roll out of public electric vehicle charging points will enable those without access to off street parking to transition to electric vehicles, contributing to a just and fair transition to a low carbon world.		2	No	