

Climate Change Impact Assessment Summary

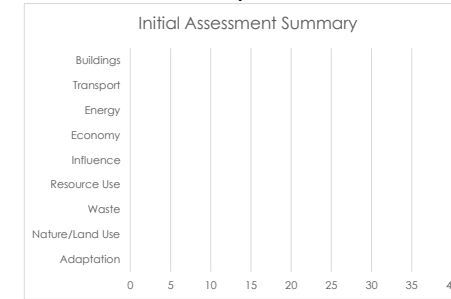
Project/Proposal Name	On-street Residential Chargepoint Scheme (ORCS)	Portfolio	City Futures
Committee	Transport, Regeneration and Climate	Lead Member	
Strategic Priority	Clean Economic Growth	Lead Officer	Kate Martin
Date CIA Completed		CIA Author	Bernd Hoermann
		Sign Off/Date	

Project Description and CIA Assessment Summary	<ul style="list-style-type: none"> •Funding is available through the On-street Residential Chargepoint Scheme (ORCS) grant from the Office for Zero Emission Vehicles (OZEV/DfT) for the installation of EV chargepoint infrastructure in residential areas lacking off-street parking. Match funding is available through the LTP. •The project aims to expand our electric vehicle charger network to help bring forward the switch to electric vehicles in Sheffield. •The project aims to improve the provision of on-street residential chargepoint infrastructure in areas lacking off-street parking. •The project aims to facilitate the switch to Ultra Low Emission / electric vehicles, supporting the economy (businesses and visitors) as well as a more inclusive transition for those that do not have access to off-street parking. •The full Climate Impact Assessment has determined that overall there should be a reduction in emissions. •While there will be short term negative impacts in terms of installation and construction, the project will achieve emissions reductions through decarbonisation of transport and consideration in the tender of use of renewable energy and materials used in servicing and maintenance. The project will also provide economic benefits in terms of access to electric charging for residents. The visible roll out of the network also provides great opportunities for awareness raising around low carbon travel. Mitigation measures will be achieved by including in the tender process
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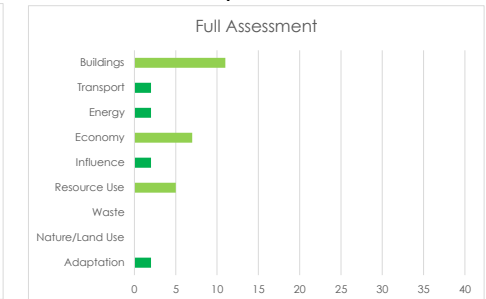
Rapid Assessment	Does the project or proposal have an impact in the following areas? Select all those that apply. Only complete the sections you have selected here in the assessment.		
Buildings and Infrastructure	Yes	Influence	Yes
Transport	Yes	Resource Use	Yes
Energy	Yes	Waste	No
Economy	Yes	Nature/Land Use	No
		Adaptation	Yes

[Chesterfield Borough Council Climate Impact Assessment Tool provided inspiration for this tool.](#)

Initial Assessment Summary



Full Assessment Summary

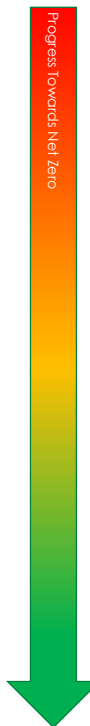


>=27	The project will increase the amount of CO2e released compared to before.
21-26	The project will maintain similar levels of CO2e emissions compared to before.
12-20	The project will achieve a moderate decrease in CO2e emissions compared to before.
3-11	The project will achieve a significant decrease in CO2e emissions compared to before.
0-2	The project can be considered to achieve net zero CO2e emissions.

Full Assessment

Category	Impact	Description of Project Impact	Mitigation Measures	Mitigated Score	Procurement Action Required?	Proposed KPI/Measure
Buildings and Infrastructure	Construction	The project will result in the installation of public electric vehicle chargepoints for residents in the City. 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 project will result in the installation of public electric vehicle chargepoints for residents in the City 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				
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 through the procurement 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 residents, 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				

10	The project will significantly increase the amount of CO2e released compared to before.
9	The project will increase the amount of CO2e released compared to before.
8	The project will maintain similar levels of CO2e emissions compared to before.
7	
6	
5	The project will achieve a moderate decrease in CO2e emissions compared to before.
4	
3	
2	The project will achieve a significant decrease in CO2e emissions compared to before.
1	
0	The project can be considered to achieve net zero CO2e emissions.
Carbon Negative	The project is actively removing CO2e from the atmosphere.



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	

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