



Environmental Impact Assessment [version 1.0]

Proposal title: Green Recovery Fund – To approve and accept grant funding		
Project stage and type: <input type="checkbox"/> Initial Idea Mandate <input type="checkbox"/> Outline Business Case <input type="checkbox"/> Full Business Case		
<input type="checkbox"/> Policy <input type="checkbox"/> Strategy <input type="checkbox"/> Function <input type="checkbox"/> Service <input type="checkbox"/> Other [please state]	<input checked="" type="checkbox"/> New <input type="checkbox"/> Already exists / review	<input type="checkbox"/> Changing
Directorate: Property Assets and Infrastructure	Lead Officer name: Helen Reed	
Service Area: City Leap Client Function and Energy Service	Lead Officer role: City Leap Client Function and Energy Service Manager	

Step 1: What do we want to do?

The purpose of this Environmental Impact Assessment is to help you develop your proposal in a way that is compliant with the council's policies and supports the council's strategic objectives under the [One City Climate Strategy](#), the [One City Ecological Emergency Strategy](#) and the latest [Corporate Strategy](#).

This assessment should be started at the beginning of the project proposal process by someone with a good knowledge of the project, the service area that will deliver it, and sufficient influence over the proposal to make changes as needed.

It is good practice to take a team approach to completing the Environmental Impact Assessment. See further [guidance](#) on completing this document. Please email environmental.performance@bristol.gov.uk early for advice and feedback.

1.1 What are the aims and objectives/purpose of this proposal?

Briefly explain the purpose of the proposal and why it is needed. Please use plain English, avoiding jargon and acronyms.

To approve and accept the grant funding offer from WECA for the Green Recovery Fund grant, totalling up to £2,500,000 to develop and implement electric vehicle charging infrastructure across Bristol City, to support the Mayor's Climate Emergency Action Plan and the Corporate Strategy.

1.2 Will the proposal have an environmental impact?

Could the proposal have either a positive or negative effects for the environment now or in the future? If 'No' explain why you are sure there will be no environmental impact, then skip steps 2-3 and request review by sending this form to environmental.performance@bristol.gov.uk

If 'Yes' complete the rest of this assessment.

Yes No [please select]

1.3 If the proposal is part of an options appraisal, has the environmental impact of each option been assessed and included in the recommendation-making process?

If 'Yes' please ensure that the details of the environmental impacts of each option are made clear in the pros and cons section of the [project management options appraisal document](#).

Yes No Not applicable [please select]

If 'No' explain why environmental impacts have not been considered as part of the options appraisal process.

Step 2: What kinds of environmental impacts might the project have?

Analysis of impacts must be rigorous. Please demonstrate your analysis of any impacts of the proposal in this section, referring to evidence you have gathered. See detailed [guidance documents](#) for advice on identifying potential impacts.

Does the proposal create any benefits for the environment, or have any adverse impacts?

Outline any potential benefits of the proposal and how they can be maximised. Identify how the proposal will support our corporate environmental objectives and the wider [One City Climate and Ecological Emergency strategies](#).

Consider how the proposal creates environmental impacts in the following categories, both now and in the future.

Reasonable efforts should be made to quantify stated benefit or adverse impacts wherever possible.

Where the proposal is likely to have a beneficial impact, consider what actions would enhance those impacts. Where the proposal is likely to have a harmful impact, consider whether actions would mitigate these impacts.

Enhancements or mitigation actions are only required when there is a likely impact identified. Remember that where enhancements or mitigation actions are listed, they should be assigned to staff and appropriately resourced.

GENERAL COMMENTS (highlight any potential issues that might impact all or many categories)	
<p>ENV1 Carbon neutral: Emissions of climate changing gases</p> <p>BCC has committed to achieving net zero emissions for its direct activities by 2025, and to support the city in achieving net zero by 2030.</p> <p>Will the proposal involve transport, or the use of energy in buildings? Will the proposal involve the purchase of goods or services? If the answer is yes to either of these questions, there will be a carbon impact.</p> <p>Consider the scale and timeframe of the impact, particularly if the proposal will lead to ongoing emissions beyond the 2025 and 2030 target dates.</p> <p>Further guidance</p> <p><input type="checkbox"/> No impact</p>	<p>Benefits</p> <p>By facilitating a greater uptake of electric vehicles (EVs), the initiative aims to decrease the greenhouse gas emissions traditionally associated with the combustion engines found in petrol and diesel cars. This could significantly reduce the city's overall carbon footprint, aligning with broader goals to mitigate climate change through reduced carbon dioxide and other harmful greenhouse gas emissions.</p>
	<p>Enhancing actions</p> <p>Ensure that the electricity supplied to the EV charge points is sourced from renewable energies, minimising the carbon footprint of the electric vehicles.</p>
	<p>Persistence of effects: <input type="checkbox"/> 1 year or less <input type="checkbox"/> 1 – 5 years <input checked="" type="checkbox"/> 5+ years</p>
	<p>Adverse impacts</p>
<p>Mitigating actions</p>	
<p>Persistence of effects: <input type="checkbox"/> 1 year or less <input type="checkbox"/> 1 – 5 years <input type="checkbox"/> 5+ years</p>	

<p>ENV2 Ecological recovery: Wildlife and habitats</p> <p>BCC has committed to 30% of its land being managed for nature and to halve its use of pesticides by 2030.</p> <p>Consider how your proposal can support increased space for nature, reduced use of pesticides, reduce pollution to waterways, and reduce consumption of products that undermine ecosystems around the world.</p> <p>If your proposal will directly lead to a reduction in habitat within Bristol, then consider how your proposed mitigation can lead to a biodiversity net gain. Be sure to refer to quantifiable changes wherever possible.</p> <p>Further guidance</p> <p><input checked="" type="checkbox"/> No impact</p>	Benefits	
	Enhancing actions	
	Persistence of effects: <input type="checkbox"/> 1 year or less <input type="checkbox"/> 1 – 5 years <input type="checkbox"/> 5+ years	
	Adverse impacts	
	Mitigating actions	
Persistence of effects: <input type="checkbox"/> 1 year or less <input type="checkbox"/> 1 – 5 years <input type="checkbox"/> 5+ years		
<p>ENV3 A cleaner, low-waste city: Consumption of resources and generation of waste</p> <p>Consider what resources will be used as a result of the proposal, how they can be minimised or swapped for less impactful ones, where they will be sourced from, and what will happen to any waste generated</p> <p>Further guidance</p> <p><input type="checkbox"/> No impact</p>	Benefits	Supporting wider uptake of electric vehicles (EVs) will facilitate a reduction in the dependence on non-renewable fossil fuels and a significant reduction in parts and materials compared to what is required for maintenance of internal combustion engines.
	Enhancing actions	N/A
	Persistence of effects: <input type="checkbox"/> 1 year or less <input type="checkbox"/> 1 – 5 years <input checked="" type="checkbox"/> 5+ years	
	Adverse impacts	The materials necessary for manufacturing EV batteries and components often involve mining of non-renewable resources such as lithium, cobalt, and nickel. These mining processes can have substantial environmental impacts, including habitat destruction and water pollution. Therefore, while the initiative represents a step towards a more sustainable transportation system, it also warrants a comprehensive approach that considers the full lifecycle of EVs, encouraging recycling and the development of technologies to reduce reliance on non-renewable resources.
	Mitigating actions	A nascent industry in recycling lithium-ion batteries is expected to rapidly develop to meet the supply of spent EV batteries.
Persistence of effects: <input type="checkbox"/> 1 year or less <input type="checkbox"/> 1 – 5 years <input checked="" type="checkbox"/> 5+ years		
Ongoing developments in battery chemistry mean that cobalt is rapidly being phased out and alternative chemistries using		

		<p>combinations such as lithium iron are expected to replace some of the rarer earth elements commonly found in today's batteries.</p>
<p>Persistence of effects: <input type="checkbox"/> 1 year or less <input type="checkbox"/> 1 – 5 years <input checked="" type="checkbox"/> 5+ years</p>		
<p>ENV4 Climate resilience: Bristol's resilience to the effects of climate change</p> <p>Bristol's climate is already changing, and increasingly frequent instances of extreme weather will become more likely over time.</p> <p>Consider how the proposal will perform during periods of extreme weather (particularly heat and flooding).</p> <p>Consider if the proposal will reduce or increase risk to people and assets during extreme weather events.</p> <p>Further guidance</p> <p><input checked="" type="checkbox"/> No impact</p>	<p>Benefits</p>	
	<p>Enhancing actions</p>	
<p>Persistence of effects: <input type="checkbox"/> 1 year or less <input type="checkbox"/> 1 – 5 years <input type="checkbox"/> 5+ years</p>		
	<p>Adverse impacts</p>	
	<p>Mitigating actions</p>	
<p>Persistence of effects: <input type="checkbox"/> 1 year or less <input type="checkbox"/> 1 – 5 years <input type="checkbox"/> 5+ years</p>		
<p>Statutory duty: Prevention of Pollution to air, water, or land</p> <p>Consider how the proposal will change the likelihood of pollution occurring to air, water, or land and what steps will be taken to prevent pollution occurring.</p> <p>Further guidance</p> <p><input type="checkbox"/> No impact</p>	<p>Benefits</p>	<p>The proposal directly supports improvements to Bristol's air quality through reduced vehicle emissions making a significant contribution to the city's statutory air quality targets and delivering significant public health benefits.</p>
	<p>Enhancing actions</p>	
<p>Persistence of effects: <input type="checkbox"/> 1 year or less <input type="checkbox"/> 1 – 5 years <input checked="" type="checkbox"/> 5+ years</p>		
	<p>Adverse impacts</p>	<p>Expansion of EV manufacturing will lead to increased likelihood of pollution occurring in locations that where rare earth minerals are mined.</p>
	<p>Mitigating actions</p>	<p>None proposed given that the supply chains of car manufacturers is beyond the scope of influence of the council or City Leap partnership and the ongoing developments in battery recycling and alternative chemistry are expected to mitigate the current negative impacts.</p>

	Persistence of effects: <input type="checkbox"/> 1 year or less	<input type="checkbox"/> 1 – 5 years	<input checked="" type="checkbox"/> 5+ years
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Step 3: Action Plan

Use this section summarise and assign responsibility for any actions you have identified to improve data, enhance beneficial, or mitigate negative impacts. Actions identified in section two can be grouped together if named responsibility is under the same person.

This action plan should be updated at each stage of the project. Please be aware that the Sustainable City and Climate Change Service may use this action plan as an audit checklist during the project’s implementation or operation.

Enhancing / mitigating action required	Responsible Officer	Timescale
Continue liaising with BCL and BCC colleagues to determine expected carbon savings associated with charging infrastructure delivered.	Sam Rawcliffe	Feb 2024

Step 4: Review

The Sustainable City and Climate Change Service need at least five working days to comment and feedback on your impact assessment. Assessments should only be marked as reviewed when they provide sufficient information for decision-makers on the environmental impact of the proposal.

Please seek feedback and review by emailing environmental.performance@bristol.gov.uk before final submission of your decision pathway documentation¹.

Where impacts identified in this assessment are deemed significant, they will be summarised here by the Sustainable City and Climate Change Service and must be included in the ‘evidence base’ section of the decision pathway cover sheet.

Summary of significant beneficial impacts and opportunities to support the Climate, Ecological and Corporate Strategies (ENV1,2,3,4):
The proposal supports delivery of Bristol’s EV charging network; a fundamental requirement for decarbonising the city’s transport network (ENV1) which in turn provides significant public health benefits associated with improving air quality (ENV4 + Health and Wellbeing Strategy).
Summary of significant adverse impacts and how they can be mitigated:

Environmental Performance Team Reviewer: Daniel Shelton	Submitting author: Samuel Rawcliffe
Date: 22/09/23	Date: 22/09/23

¹ Review by the Sustainable City and Climate Change Service confirms there is sufficient analysis for decision makers to consider the likely environmental impacts at this stage. This is not an endorsement or approval of the proposal.