

Climate Impact Assessment, Appendix 4 Gateway Station Masterplan Business Case

Will the decision/proposal impact...	Impact	If an impact or potential impacts are identified:			
		Describe impacts or potential impacts on emissions from the Council and its contractors.	Describe impact or potential impacts on emissions across the Borough as a whole.	Describe any measures to mitigate emission impacts	Outline any monitoring of emission impacts that will be carried out
Emissions from non-domestic buildings?	None	N/A	N/A	N/A	N/A
Emissions from transport?	Increase	There is a small increase of emissions from transport of council staff vehicles. This will occur when council staff are providing contractors and other staff members a tour of the site.	There will be no impact to the Borough as a whole.	Staff will car share to reduce the amount of vehicles used.	Monitor the number of times that a tour around the site has taken place and is likely to take place. Also monitor the number of cars used to tour around the site.
Emissions from waste, or the quantity of waste itself?	None	N/A	N/A	N/A	N/A
Emissions from housing and domestic buildings?	Unknown	N/A	N/A	N/A	N/A
Emissions from construction and/or development?	Unknown	N/A	N/A	N/A	N/A

Carbon capture (e.g. through trees)?	Unknown	N/A	N/A	N/A	N/A
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Identify any emissions impacts associated with this decision which have not been covered by the above fields:
 We are currently only submitting a Strategic Programme Business Case, therefore there will currently be no impact on emissions. Upon the delivery of each project, a Climate Impact Assessment will be completed to assess the emissions and impact.

Will the proposal affect Council services' resilience to climate change, or the capacity of people living in the Borough to adapt to climate change?
Extreme weather event mitigation/ CC resilience. The Strategic Programme Business Case will not affect the Councils' resilience to climate change, however through the delivery of the scheme, it will support climate change adaptations and mitigate against flood risk. In terms of mitigating the risks from extreme heat events, the masterplan delivery will include the planting of street trees and biodiverse rain scaping: both these nature-based solutions will mitigate the 'urban heat island effect'. This is by providing shade and limiting the amount of heat retaining hard standing such as concrete and tarmac.

Provide a summary of all impacts and mitigation/monitoring measures: Impact will only occur when the scheme is at delivery stage. This is likely to be from Contractors. Possible emissions include contractors attending site, and the ongoing works to site. Contractors will be encouraged to recycle waste where possible, contractors will also be encouraged to utilise materials to reduce the amount of waste.

Monitoring emission impacts will be carried out at delivery stage, and whilst the decision to submit a Programme Business case does not impact emissions, the delivery of the projects within the scheme will be expected from construction and development vehicles. Emissions expected across the Borough from contractors delivering materials to site. Contractors will be encouraged to combine materials on the same delivery to reduce the number of deliveries made to site.

Embodied Carbon and Construction Impact: The construction phases of the Masterplan include Rotherham Gateway. The Gateway will involve significant embodied carbon, which includes emissions from the production and transportation of building materials, as well as the energy used during construction. Additionally, increased rail traffic will contribute to carbon emissions, although rail is proven to be a more carbon efficient mode of transport compared to the use of the private car. Each project that comes out of the Wider Masterplan will include its own detailed Carbon Impact Assessment.

Long-term Benefits: The Masterplan has intent to provide a regenerate area for the Borough, more specifically long term, an Innovation Campus is proposed. The Innovation Campus, alongside the other phases of the Masterplan, will increase the use of public transport and private cars, however Rail and Tram use emits far fewer greenhouse gases (GHG) and nitrogen oxides (NOx) per passenger kilometre compared to private vehicles. Increased public transport connectivity and use via Rotherham will therefore contribute to lower overall emissions in the Borough.

Supporting information:	
Climate Impact Assessment Author	Laura Dryden Project Support Officer Regeneration Regeneration and Environment
Please outline any research, data or information used to complete this Climate Impact Assessment.	N/A
If quantities of emissions are relevant to and have been used in this form please identify which conversion factors have been used to quantify impacts.	Not applicable at this stage of the project.
Validation	Tracking Reference: CIA 556 Louise Preston Climate Change Manager