

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 Rotherham 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?	Increases emission during works, decrease during operation	<p>Emissions during demolition and construction works will increase.</p> <p>Though the buildings are not net zero in operation the operational carbon footprint will decrease compared with existing buildings due to use of low carbon heating (air source heat pumps and compliance with part L building regulations. Some solar PV is included on Thrybergh within the current specification to provide some of the electricity from a renewable source. Any electricity subsequently used at Rother Valley and any additional used at Thrybergh will be sourced from the national grid which is expected to decarbonised by 2035. At the time of writing, designs are currently in phase 2 and are subject to change.</p>	<p>Temporary increases in Borough emission throughout construction.</p> <p>New non-domestic buildings will be designed to minimise carbon emissions operationally.</p>	<p>Design and construction that mitigates emissions will be prioritised. Part L compliance and use of low carbon heating systems ensures a reduction in carbon footprint compared with current buildings. The use of locally sourced materials will be encouraged to reduce carbon footprint of the build phase. Sympathetic planting on site and application of a sedum green roof at Thrybergh will provide minimal emissions mitigation but will be beneficial for biodiversity and nature recovery.</p>	<p>In support of the council's target of Net zero in operation for council buildings, the emissions of the new non-domestic assets will be recorded and monitored by the council's Climate Change Team and shared so that further operational emissions reductions can be gained through optimising building use.</p>
Emissions from transport?	Increases emissions	<p>The projects will generate the need travel to site during construction phases.</p>	<p>The projects will enhance existing leisure and skills sites across the borough so may generate an increase in visitors/ car journeys.</p>	<p>Car parking provision will likely be limited, and other forms of transport will be encouraged.</p> <p>Electric vehicle charging points will be delivered.</p>	<p>The contractors will be required to report project emissions. From an EV infrastructure point of view, the presence of high-profile infrastructure</p>

					will encourage uptake in electric vehicle use in Rotherham.
Emissions from waste, or the quantity of waste itself?	Increases emissions	The construction process will generate waste.	Larger hospitality buildings will be developed which will increase volume of waste.	Promotion of waste segregation and diversion from landfill during the construction process and adherence with local waste management practice during operation. Waste recycling in operation.	Food waste will be minimised through careful menu design and stock management processes. Waste will be recycled. No single use plastics will be used on site.
Emissions from housing and domestic buildings?	No impact on emissions	N/A	N/A	N/A	N/A
Emissions from construction and/or development?	Increases emissions	Most projects involve significant construction works/Key activities that will likely impact on emissions include travel to site and use of local power generation (generators) until permanent power is available.	Temporary increase in Borough emissions.	Look to promote active travel and reduce single occupancy car journeys. Responsible construction waste management. Locally sourced materials and resources where possible.	Industry standard practises to be managed by contractor.
Carbon capture (e.g. through trees)?	Impact unknown	Development is taking place in green environment allowing for passive carbon capture.	Emissions will be partially offset through planting of trees and extensive soft landscaping.	Tree planting, soft landscaping, greening of brownfield land all to contribute to carbon capture.	Some impact may be captured through the planned I-tree survey, but majority will be captured through qualitative assessment of project completion.

Identify any emission impacts associated with this decision that have not been covered by the above fields:

Actual carbon impacts will be firmed up during detailed design stages.

Please provide a summary of all impacts and mitigation/monitoring measures:

Energy Efficient designs (Part L compliance only) and use of low carbon heating systems ensures a reduction in carbon footprint compared with current buildings. The use of locally sourced, natural materials will be encouraged to reduce carbon footprint of the build phase. Sympathetic planting on site and application of a sedum 'green' roof at Thrybergh will provide minimal emissions mitigation but will be beneficial for biodiversity and nature recovery. However, the substantial planting/ soft landscaping schemes will support carbon sequestration and climate adaptation as well as providing a biodiversity benefit. Provision for electric vehicle charging will be included to encourage low carbon transport. Minimising food waste will also be a prime operational concern. Additional site-specific emissions mitigation options will be considered with support from Rotherham Council's energy team post-delivery.

Supporting information:	
Completed by: (Name, title, and service area/directorate).	Megan Hinchliff, Regeneration & Development Project Manager RiDO, Regeneration and Environment
Please outline any research, data, or information used to complete this [form].	Architectural design specification, Climate Change management team.
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.	N/A
Tracking [to be completed by Policy Support / Climate Champions]	Louise Preston, Climate Change Manager –Tracking No.: CIA071 Lorna Vertigan, Strategic Regeneration Manager, RiDO, R&E