

User guidance:

- The first section of this form guides users through considering major areas where emissions are likely to occur. If emissions are impacted in a way not covered by these categories, please identify this at the bottom of the section
- The first section should be filled as such:
 - **Impact.** identify, in relation to each area, whether the decision of the proposal does the following: *reduces emissions, increases emissions, or has no impact on emissions*. If it is uncertain this section can be labelled *impact unknown*
 - If **no impact on emissions** is identified: no further detail is needed for this area, but can be added if relevant (e.g. if efforts have been made to mitigate emissions in this area.)
 - **Describe impacts or potential impacts on emissions:** two sections deal respectively with emissions from the Council (including those of contractors), and emissions across Rotherham as a whole. In both sections please explain any factors that are likely to reduce or increase emissions. If **impact unknown** has been selected, then identify the area of uncertainty and outline known variables that may affect impacts.
 - In most cases there is no need to quantify the emission impact of an area after outlining the factors that may reduce or increase emissions. In some cases, however, this may be desirable if factors can be reduced to a small number of known variables (e.g. if an emission impact is attached to a known or estimated quantity of fuel consumed).
 - **Describe any measures to mitigate emission impact:** regardless of the emission impact, in many cases steps should be taken in order to reduce mitigate all emissions associated with each area as far as possible; these steps can be outlined here (For example: if a proposal is likely to increase emissions but practices or materials have been adopted in order to reduce this overall impact, this would be described here).
 - **Outline any monitoring of emission impacts that will be carried out:** in this section outline any steps taken to monitor emission levels, or steps taken to monitor the factors that are expected to increase or reduce emission levels (for example, if waste or transport levels are being monitored this would be described here)
- A **summary paragraph** outlining the likely overall impacts of the proposal/decision on emissions should then be completed - this is not required if the proposal/decision has no impact across all areas.
- The supporting information section should be filled as followed:
 - Author/completing officer
 - **Research, data, or information** may refer to datasets, background documents, literature, consultations, or other data-gathering exercise. These should also be added to the **supporting documents** section of the cabinet report

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- Carbon Impact Assessments are to be appended to the associated cabinet reports
 - Prior to publishing reports, Carbon Impact Assessments should be sent to climate@rotherham.gov.uk for feedback
 - Report authors may also use the above email address to direct any further queries or to access further support regarding completing the assessment

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?	No impact on emissions	Schemes to upgrade District Heating Boiler houses will be funded through the HRA Business Plan and will look to alternate fuels such as biomass.	The introduction of biomass boilers or other net zero carbon district heating schemes will result in a reduction of net zero carbon emissions for the heating of the buildings heated by the scheme and a reduction in emissions across the Borough.	N / A	This will be monitored through the procurement process for the replacement boilers and the supply of biomass fuel.
Emissions from transport?	Increased emissions / impact unknown	Vehicle movements to and from sites will be generated during demolition and construction will create emissions, through the movement of building and waste materials and personnel.	While it is possible that new households will increase vehicle movements, they may also reduce them, depending on where new residents work and access services. We do not know before a development is built where new residents will move from and whether this move will increase or decrease vehicle movements. Some new properties included in the programme, i.e. the homes the Council purchases as strategic acquisitions will be built regardless of whether the Council purchases them or not.	Where appropriate, prospective contractors will be required to demonstrate how they will minimise and mitigate emissions from vehicle movements as part of the construction, during the tendering process. All new housing developments are subject to planning controls and the planning process at the plan and policy development and planning application stages takes into account vehicle movements.	Assessment of whether the new households increase or decrease carbon emissions through vehicle movements is not monitored at this time.

Emissions from waste, or the quantity of waste itself?	Increased emissions	Construction will generate waste materials through demolition, exporting of materials from groundworks and waste construction materials.	Although new households may not necessarily mean more people living in the Borough, they are likely to create a small increase in the overall volume of waste created and in the distance travelled by waste collection vehicles.	Where appropriate, prospective contractors will be required to demonstrate how they will minimise and mitigate vehicle emissions from the movement of waste, during the tendering process. This will include the recycling / re use of materials on site where possible.	Unknown.
Emissions from housing and domestic buildings?	Impact unknown	No direct emissions increase for the council.	<p>The new properties built as part of the programme will increase emissions from the heating and lighting of the new properties.</p> <p>Retrofitting schemes and refurbishments which include measures to improve energy efficiency will reduce carbon emissions</p>	<p>In designing refurbishment schemes the Housing Service will use technologies that have lower carbon emissions, where cost effective and practicable.</p> <p>Refurbishment which focusses on retrofitting for carbon emissions reduction will generally aim to achieve at least EPC level "C"</p> <p>The Council will ensure that the new homes are high quality, energy efficient and able to meet the challenge of climate change.</p> <p>The use of modern methods of construction will be considered for all</p>	Construction will be monitored to ensure that specifications are met and, where appropriate, the energy performance of new buildings will be monitored once occupied to ensure that the stated performance standards are met.

				<p>new schemes, where value for money can be demonstrated as well as carbon reduction.</p>	
<p>Emissions from construction and/or development?</p>	<p>Increased emissions</p>	<p>Emissions will be increased from on site vehicles and equipment and the lighting of the sites. Also, from the heating lighting and powering of site offices and cabins. The manufacture of construction materials will increase emissions.</p> <p>It is possible that some mature trees will be removed as part of the development of new sites</p>	<p>Some of the building materials will be manufactured within the Borough.</p> <p>Removal of trees without replacement could, depending how they are disposed of, increase carbon emissions.</p>	<p>The use of modern methods of construction will be considered for all new schemes, where value for money can be demonstrated as well as carbon reduction.</p> <p>For refurbishment / retrofit schemes, emissions from the construction and refurbishment of properties could be offset by the reduction in carbon emissions from newly installed components having lower or zero carbon emissions.</p> <p>Where trees are present on a development site they will be retained where possible. The planning process deals with protection of trees on development sites and where it allows their removal usually requires equivalent or better replacement.</p>	<p>This will be monitored through the procurement process.</p>

Carbon capture (e.g. through trees)?	Unknown	Some of the Council's own construction projects will include the planting of trees as part of any landscaping schemes	Unknown	N/A	Unknown
Identify any emission impacts associated with this decision that have not been covered by the above fields: N /A					

Please provide a summary of all impacts and mitigation/monitoring measures: Emissions will be generated from energy use associated with construction sites, the vehicle movements associated with construction personnel, materials and waste. The manufacture of construction materials will also generate emissions. New homes will generate new emissions mainly through lighting and heating and the powering of domestic appliances. These increases will be mitigated through the requirement for prospective contractors to demonstrate how they will reduce emissions from the above and monitored through the construction period. The Council will continue to ensure that new homes are as energy efficient as possible and employ the use of modern methods of construction where value for money can be demonstrated as well as carbon reduction. The actual energy performance of new homes will be monitored to ensure that they meet expected standards.

Supporting information:	
Completed by: (Name, title, and service area/directorate).	Nick Ward, Place and Quality Manager, Strategic Housing and Development Service, Adult Care, Housing and Public Health
Please outline any research, data, or information used to complete this [form].	No relevant data or research used.
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.	No relevant data or research used.
Tracking [to be completed by Policy Support / Climate Champions]	