

Climate Change Impact Assessment Summary

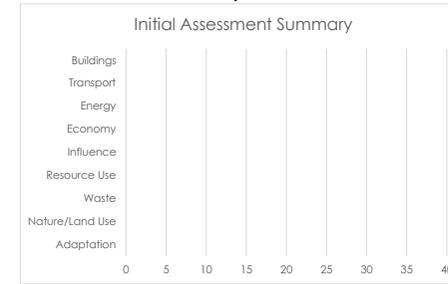
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|------------------------------|----------------------------------|----------------------|---------------|
| Project/Proposal Name | Growth Framework and Growth Plan | Portfolio | City Futures |
| Committee | Strategy and Resources | Lead Member | Cllr Tom Hunt |
| Strategic Priority | Clean Economic Growth | Lead Officer | Andy Kempster |
| Date CIA Completed | | CIA Author | Jen Rickard |
| | | Sign Off/Date | |

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|---|--|
| Project Description and CIA Assessment Summary | <p>The city neither has a growth plan nor a coherent narrative on growth, a gap this work is attempting to address. The Growth Framework will set out the principles and themes to be used as the basis for development of a Sheffield Growth Plan 2023-2035. These principles and themes have been developed through engagement with stakeholders in the city, building upon the engagement that took place with the City Goals.</p> <p>The Growth Framework will be considered by Strategy and Resources Committee in March 2024. The Sheffield Growth Plan will be developed by late Summer 2024.</p> <p>Sheffield City Council having declared climate and nature emergencies and having a target to see both the city and council greenhouse gas emissions reduce to net zero by 2030 is important context; the Growth Plan will be an adopted strategy for the city and as such will help to drive and join-up activity to address climate change and reduce emissions. It is not possible to accurately quantify the impacts of the high level objectives set out in the initial phase of the Growth framework, but one of the principles of the Growth Framework is to 'Meet our climate ambitions and readiness' and one of the three themes of the framework is 'Our Economy: Global, Green and Growing' in particular have the potential to have a positive impact on how the city responds to the climate emergency.</p> |
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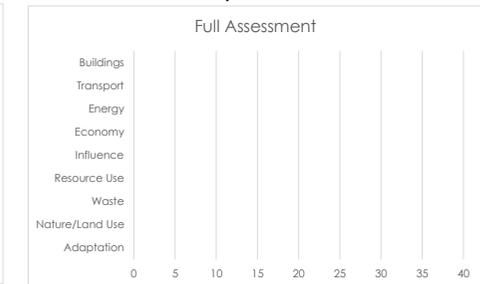
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|-------------------------------------|---|------------------------|-----|
| Rapid Assessment | Does the project or proposal have an impact in the following areas? Select all those that apply. Only complete the sections you have selected here in the assessment. | | |
| Buildings and Infrastructure | Yes | Influence | Yes |
| Transport | Yes | Resource Use | No |
| Energy | Yes | Waste | No |
| Economy | Yes | Nature/Land Use | Yes |
| | | 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. |

Initial Assessment

| Category | Impact | Description of Project Impact | Score |
|------------------------------|---|---|---------|
| Buildings and Infrastructure | Construction | Successful delivery of the Growth Plan is likely to result in more construction, with the Growth Framework highlighting the Advanced Manufacturing Research Centre, Sheffield Olympic Legacy Park, Innovation District and the Investment Zone as examples of developments that will support economic growth. In addition to this, the Growth Framework refers to plans to deliver 20,000 homes in the city centre and 36,000 homes across the city in our Housing Growth Delivery Plan. However, the Growth Framework as a first step towards the Growth Plan contains important commitments on climate: one of its principles is to 'Meet our climate ambitions and readiness'. Therefore potential impacts of new construction could be at least be partially mitigated by high sustainability standards on new development, including on-site renewable energy generation and connection to low-carbon heat sources such as a heat network and reuse of existing buildings. | Unknown |
| | Use | The Growth Framework and Growth Plan do not include this level of detail on building use, although with one of its principles being to 'Meet our climate ambitions and readiness' it is unlikely the impact would significantly increase CO2e. | Unknown |
| | Land use in development | See 'Construction' above. One of the three themes of the Growth Framework is 'Growing our Neighbourhoods Together' which recognises the importance of nature and outdoor space and creating public realms people are proud of. Opportunities to align this with the development of the Our Land Decarbonisation Routemap will also be explored. Delivering against this theme will help to contribute towards Co2e. | Unknown |
| Transport | Demand Reduction | The Growth Framework and Growth Plan do not directly address reduction in transport demand. The Growth Framework refers to the delivery of a refreshed Transport Strategy that supports growth and provides connections to jobs to key economic sites across the city. This the potential to have either positive or negative impacts for decarbonisation depending on how it is implemented: decarbonising the transport system requires reducing the number of car journeys, as well as those journeys that do take place being taken in vehicles run without fossil fuels. However, increasing travel by public transport and making walking, cycling and wheeling easier and safer will increase transport options for all. | Unknown |
| | Decarbonisation of Transport | As above on 'Demand Reduction' | Unknown |
| | Public Transport | The Growth Framework refers to the delivery of a refreshed Transport Strategy that sets out plans to improve bus and tram patronage and connectness. Successful delivery of this will result in a positive impact on CO2E levels. | Unknown |
| | Increasing Active Travel | The Growth Framework refers to the delivery of further Active Travel infrastructure across the city. It is anticipated that this will result in a reduction in car trips which would have positive impact on CO2e levels. | Unknown |
| Energy | Decarbonisation of Fuel | As noted in 'Construction' new developments will be encouraged to include high sustainability standards that will support decarbonisation of fuel (e.g. utilising alternative heating such as a heat network or ASHP, rather than nat. gas.) As noted above in transport / active travel, the Growth Framework refers to both a refreshed Transport Strategy and | Unknown |
| | Demand Reduction/Efficiency Improvements | As noted in 'Construction' new developments will be encouraged to include high sustainability standards that will create buildings that are highly energy efficient and that connect to a local heat network where available or utilise low | Unknown |
| | Increasing infrastructure for renewables generation | The Growth Framework contains important commitments on climate: one of its principles is to 'Meet our climate ambitions and readiness'. It should therefore ensure that developments (buildings and other assets) consider the opportunity for increasing infrastructure for renewable energy generation to help mitigate CO2e created during | Unknown |
| Economy | Development of low carbon businesses | One of the three themes of the framework is 'Our Economy: Global, Green and Growing', which highlights the opportunity Sheffield has to grow its green economy. Key to this, and highlighted in the framework, is provision of business support to help start-ups grow and scale-up, investment in green skills through the city's Employment and Skills Strategy and the Business Decarbonisation Routemap. Successful delivery of these interventions will help to support the | Unknown |
| | Increase in low carbon skills/training | One of the three themes of the framework is 'Our Economy: Global, Green and Growing', which highlights the opportunity Sheffield has to grow its green economy. Key to this, and highlighted in the framework, is the delivery of the city's forthcoming Employment and Skills strategy. The successful delivery of this strategy will lead to an increase in low carbon skills and training. | Unknown |
| | Improved business sustainability | One of the Growth Framework's principles is to 'Meet our climate ambitions and readiness'. The Growth Framework references the Business Decarbonisation Routemap as a key tool that will support businesses transition to a low-carbon economy. Successful delivery of this outcomes will have a positive impact on business sustainability. | Unknown |

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|-----------------|---|
| 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 | The project will achieve a moderate decrease in CO2e emissions compared to before. |
| 5 | |
| 4 | |
| 3 | The project will achieve a significant decrease in CO2e emissions compared to before. |
| 2 | |
| 1 | The project can be considered to achieve net zero CO2e emissions. |
| 0 | |
| Carbon Negative | The project is actively removing CO2e from the atmosphere. |

Progress Towards Net Zero



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|-----------|---------------------------|---|---------|
| Influence | Awareness Raising | The Growth Framework and Growth Plan will be important strategic documents for SCC provide clear messaging for potential investors, our partners in the city and citizens on what Sheffield is trying to achieve and how it will do it. In having one of five principles stating that we will 'Meet our climate ambitions and readiness', and one of the three themes of the framework being 'Our Economy: Global, Green and Growing' the Growth Plan sets out the importance of | Unknown |
| | Climate Leadership | As above on 'Awareness Raising'. The Growth Plan will be a high profile adopted strategy for SCC and by setting out commitments over the short, medium and long-term, a key tool for supporting partnership working over the next 11 years. | Unknown |
| | Working with Stakeholders | Engagement so far on the Growth Framework has involved 65 stakeholders and 9 workshops, the vast majority of whom were partners external to SCC. This engagement will continue as the Growth Plan develops. One of the principles of the Growth Framework, set out in the S&R report, is 'We work in partnership with the city including community, voluntary, public, private, regional and national bodies and organisations', recognising that future strategies need to utilise and work with business and community groups and build on successful partnerships. This is particularly | Unknown |

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| Resource Use | Water Use | The Growth Plan does not directly address water use. | NA |
| | Food and Drink | The Growth Framework references work to develop sustainable urban food industry strategies to support local sourcing and agri-business. These strategies, if successfully delivered, will have a positive impact on sustainability of the local food industry. | Unknown |
| | Products | The Growth Plan does not directly address products. | NA |
| | Services | The Growth Plan does not directly address services (in terms of resource use). | NA |

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|-------|------------------|---|----|
| Waste | Waste Reduction | The Growth Plan does not directly address waste reduction. | NA |
| | Waste Hierarchy | The Growth Plan does not directly address waste hierarchy. | NA |
| | Circular Economy | The Growth Plan does not directly address the circular economy. | NA |

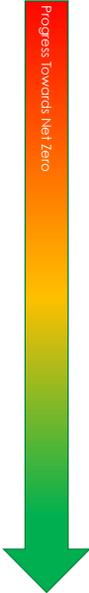
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| Nature/Land Use | Biodiversity | One of the three themes of the Growth Framework is 'Grwning our Neighbourhoods Together' which recognises the importance of nature and outdoor space. This theme has the potential to have positive impacts on biodiversity. The Growth Framework references the development of the Nature Recovery Strategy that supports outside groups | Unknown |
| | Carbon Storage | The Growth Plan does not directly address carbon storage, however Opportunities to align this with the development of the Our Land Decarbonisation Routemap will also be explored and may provide an opportunity for Growth Plan to expand this. | NA |
| | Flood Management | The Growth Plan will include commitments around flood management and delivery, the delivery of which will have a positive impact on this area. | Unknown |

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| Adaptation | Exposure to climate change impacts | As part of the engagement for the Growth Framework, climate change impacts came out as a strong theme and an area of challenge and opportunity. Placing the city's climate ambitions as a key part of the Growth Plan reflects this feedback and gives SCC and partners impetus to address the impacts. | Unknown |
| | Vulnerable Groups | The impact of climate change or adaptation on vulnerable groups is not directly addressed by the Growth Plan, although the Growth Framework does state that 'Strategies and policies shouldn't leave any communities behind' which will link to how the city protects groups particularly vulnerable to the impacts of climate change. | Unknown |
| | Just Transition | Within the Growth Framework, under the priority to 'Meet our climate ambitions and readiness', the report states the Growth Plan will involve 'ensuring businesses and individuals have the right support as the city transitions to a low carbon economy.' It also states that 'Strategies and policies shouldn't leave any communities behind', supporting the idea of a just transition. | Unknown |

Full Assessment

| Category | Impact | Description of Project Impact | Mitigation Measures | Mitigated Score | Procurement Action Required? | Proposed KPI/Measure |
|------------------------------|---|-------------------------------|---------------------|-----------------|------------------------------|----------------------|
| Buildings and Infrastructure | Construction | | | | | |
| | Use | | | | | |
| | Land use in development | | | | | |
| Transport | Demand Reduction | | | | | |
| | Decarbonisation of Transport | | | | | |
| | Public Transport | | | | | |
| | Increasing Active Travel | | | | | |
| Energy | Decarbonisation of Fuel | | | | | |
| | Demand Reduction/Efficiency Improvements | | | | | |
| | Increasing infrastructure for renewables generation | | | | | |
| Economy | Development of low carbon businesses | | | | | |
| | Increase in low carbon skills/training | | | | | |
| | Improved business sustainability | | | | | |
| Influence | Awareness Raising | | | | | |
| | Climate Leadership | | | | | |
| | Working with Stakeholders | | | | | |
| Resource Use | Water Use | | | | | |
| | Food and Drink | | | | | |
| | Products | | | | | |
| | Services | | | | | |

| | |
|-----------------|---|
| 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 | The project will achieve a significant decrease in CO2e emissions compared to before. |
| 2 | |
| 1 | The project can be considered to achieve net zero CO2e emissions. |
| 0 | |
| Carbon Negative | The project is actively removing CO2e from the atmosphere. |



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|-----------------|------------------------------------|--|--|--|--|--|
| Waste | Waste Reduction | | | | | |
| | Waste Hierarchy | | | | | |
| | Circular Economy | | | | | |
| Nature/Land Use | Biodiversity | | | | | |
| | Carbon Storage | | | | | |
| | Flood Management | | | | | |
| Adaptation | Exposure to climate change impacts | | | | | |
| | Vulnerable Groups | | | | | |
| | Just Transition | | | | | |

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