

1. IMPACT ON CARBON EMISSIONS (MITIGATION OF CLIMATE CHANGE)							
HOW WILL THIS PROJECT/PROPOSAL AFFECT THE FOLLOWING KEY AREAS:	WHAT IS THE IMPACT CONSIDERED TO BE? <i>See guidance in the purple box, below, to help you assess the degree of the negative and positive impacts e.g. High, Medium or Low</i>	CLIMATE CHANGE RATING: <i>Use drop down list</i>	WILL THE PROJECT MOVE CAMBRIDGE CITY COUNCIL CLOSER TO THE OBJECTIVE OF A NET ZERO CARBON BY 2030? <i>Use drop down list</i>	WILL THE PROJECT MOVE THE CITY CLOSER TO THE OBJECTIVE OF A NET ZERO CARBON CAMBRIDGE BY 2030? <i>Use drop down list</i>	PLEASE DETAIL HERE THE ACTION THAT WILL BE TAKEN TO AVOID, MITIGATE OR COMPENSATE FOR THE NEGATIVE IMPACTS AND MAXIMISE POSITIVE IMPACTS?	HAS A NET ZERO CARBON OPTION BEEN CONSIDERED? PLEASE PROVIDE DETAILS.	
1	ENERGY USE	<p>Positive Impact: Energy use will be reduced or renewable energy will be used</p> <p>Nil Impact: No extra energy use is involved</p> <p>Negative Impact: More energy (gas and/ or electricity) will be consumed (by CCC or others)</p>	Low Negative	No	Yes	<p>Consider:</p> <ul style="list-style-type: none"> <li>- Reducing demand for energy</li> <li>- Specifying energy efficiency measures (e.g. insulation, low energy lighting)</li> <li>- Generating renewable energy (e.g. heat pumps, solar photovoltaic panels)</li> </ul> <p>This development is being undertaken as to deliver housing to passivhaus standard, as a fabric led development offering the benefits of low energy usage but limiting the ongoing maintenance expenses linked to specialised installations. The development will be fully designed to allow future retrofit to Net zero as financial viability allows.</p> <p>The development replaces 36 existing low efficiency homes with 74 new homes developed to high efficiency standards</p>	Yes. This scheme is however to be developed to Passivhaus standard as a pilot scheme of flats for the council. This is an important step in developing experiential learning ahead of stepping up to full net zero carbon delivery.
2	WASTE GENERATION	<p>Positive Impact: Less waste will be generated OR amount of waste that is reused/ recycled will be increased</p> <p>Nil Impact: No waste will be generated</p> <p>Negative Impact: More waste will be generated (by CCC or others)</p>	Medium Negative	No	Yes	<p>Consider:</p> <ul style="list-style-type: none"> <li>-Will resources be reduced or reused?</li> <li>-Will you use recycled goods?</li> <li>-Will recycling facilities be increased?</li> </ul> <p>Construction waste is subject to heavily regulated restrictions, however demolition will generate waste which will not be fully recoverable for reuse. Control and oversight of materials use will be under strict oversight.</p> <p>Ongoing waste generation would generally be a low negative as while it is additional housing, the council rental targets tenants already living in or with ties to the city, and developments will be killed out fully to promote waste recycling/reduction measures</p>	Yes. This scheme is however to be developed to Passivhaus standard as a pilot scheme of flats for the council. This is an important step in developing experiential learning ahead of stepping up to full net zero carbon delivery.
3	USE OF TRANSPORT	<p>Positive Impact: The use of transport and/or of fossil fuel-based transport will be reduced</p> <p>Nil Impact: No extra transport will be necessary</p> <p>Negative Impact: CCC or others will need to travel more OR transport goods more often/ further</p>	Low Negative	No	Yes	<p>Consider:</p> <ul style="list-style-type: none"> <li>- Will you purchase an electric vehicle?</li> <li>- Will you specify the use of public transport</li> <li>- How will you reduce the need to travel or transport goods</li> </ul> <p>New housing delivery and subsequent car parking allocations to be in line with the council's ambitions of 0.5 spaces or less per home.</p> <p>Bike storage facilities are provided as standard on new build schemes.</p> <p>EV Vehicles Charging point are outlined to be strategically delivered together with new build properties.</p>	Yes. This scheme is however to be developed to Passivhaus standard as a pilot scheme of flats for the council. This is an important step in developing experiential learning ahead of stepping up to full net zero carbon delivery.
4	SUSTAINABLE FOOD	<p>Positive Impact: Food will be locally grown and/ or meat-free</p> <p>Nil Impact: No change in supply of food</p> <p>Negative Impact: Food will travel long distances and include meat</p>	Nil	No	No	<p>Consider:</p> <ul style="list-style-type: none"> <li>- Use of locally grown/ produced food</li> <li>- Reducing use of imported food</li> <li>- Reducing use of meat</li> </ul> <p>Not Applicable</p>	
2. IMPACT ON RESILIENCE (ADAPTATION) TO THE EFFECTS OF CLIMATE CHANGE							
HOW WILL THIS PROJECT/PROPOSAL AFFECT THE FOLLOWING KEY AREAS :	WHAT IS THE IMPACT CONSIDERED TO BE? <i>See guidance in the purple box, below, to help you assess the degree of the negative and positive impacts e.g. High, Medium or Low</i>	CLIMATE CHANGE RATING: <i>Use drop down list</i>	WILL THE PROJECT HELP CAMBRIDGE CITY COUNCIL BE MORE RESILIENT TO THE IMPACTS OF CLIMATE CHANGE? <i>Use drop down list</i>	WILL THE PROJECT HELP THE CITY BE MORE RESILIENT TO THE IMPACTS OF CLIMATE CHANGE? <i>Use drop down list</i>	PLEASE DETAIL HERE THE ACTION THAT WILL BE TAKEN TO AVOID, MITIGATE OR COMPENSATE FOR THE NEGATIVE IMPACTS AND MAXIMISE POSITIVE IMPACTS?	HAS A NET ZERO CARBON OPTION BEEN CONSIDERED? PLEASE PROVIDE DETAILS.	
5	HEATWAVES	<p>Positive Impact: Increased/ improved shade &amp; natural ventilation</p> <p>Nil Impact: No impact on existing levels of shade &amp; ventilation</p> <p>Negative Impact: Lack of or reduced shade (e.g. from trees or buildings) &amp; natural ventilation</p>	High Positive	No	Yes	<p>Consider: Building orientation and installing measures such as Brise Soleil to reduce heat gain and plant hydration methods.</p> <p>All developmental and design work is conducted in line with the updated Sustainable Housing Design Guide. A maximal water use target of 90lpp/day has been set for the new units, and the development makes use of low water fittings, rainwater catchment and further water efficiency measure installation as deemed appropriate.</p> <p>The development replaces ageing stock which does not possess any water efficiency installations</p>	Yes. This scheme is however to be developed to Passivhaus standard as a pilot scheme of flats for the council. This is an important step in developing experiential learning ahead of stepping up to full net zero carbon delivery.
6	WATER AVAILABILITY	<p>Positive Impact: Provision made for an enhancement of water efficiency measures to minimise the impact on water resource availability</p> <p>Nil Impact: Levels of water use will not be changed</p> <p>Negative Impact: Water use will increase and/or no provision made for water management = Negative Impact</p>	High Positive	No	Yes	<p>Consider: Managing water use efficiently, installing measures to use less water such as low water use taps, planting drought resistant plants and using rainwater for irrigation.</p> <p>Planning regulations require design toward planning for 1:100 yr flooding. Water runoff/stormwater management will be designed according to the SHDG and Planning requirements. Redevelopment will allow for replacement of existing covering structures with hinged permeability alternatives</p>	Yes. This scheme is however to be developed to Passivhaus standard as a pilot scheme of flats for the council. This is an important step in developing experiential learning ahead of stepping up to full net zero carbon delivery.
7	FLOODING	<p>Positive Impact: Sustainable drainage measures incorporated, positive steps to reduce &amp; manage flood risk</p> <p>Nil Impact: Levels of surface water run-off &amp; flood risk are not affected</p> <p>Negative Impact: Levels of surface water run-off will increase, no management of flood risk</p>	High Positive	No	Yes	<p>Consider: The installation of measures to reduce the speed and increase the absorption of rainwater e.g. green roofs, SuDS, permeable paving etc. and alternative arrangements (business continuity)</p>	Yes. This scheme is however to be developed to Passivhaus standard as a pilot scheme of flats for the council. This is an important step in developing experiential learning ahead of stepping up to full net zero carbon delivery.
8	HIGH WINDS / STORMS	<p>Positive Impact: Exposure to higher wind speeds is being actively managed &amp; reduced</p> <p>Nil Impact: No change to existing level of exposure to higher wind speeds</p> <p>Negative Impact: Exposure to higher wind speeds is increased or is not managed = Negative Impact</p>	Nil			<p>Consider: the need to install stabilisation measures and ensure robust structures resilient to high winds</p> <p>Not applicable. Redevelopment of buildings will however have an inherent reducing effect on wind speeds crossing the site</p>	
9	FOOD SECURITY	<p>Positive Impact: Opportunities &amp; resources for local food production are increased/ enhanced</p> <p>Nil Impact: No change to opportunities &amp; resources for local food production</p> <p>Negative Impact: Opportunities &amp; resources for local food production are reduced</p>	Nil	No	Yes	<p>Source food locally, and provide meat-free catering to reduce vulnerability to food shortages and reduce emissions from transport and farming of food</p> <p>Not applicable</p>	
10	BIODIVERSITY	<p>Positive Impact: Biodiversity will be protected/ enhanced</p> <p>Nil Impact: Level of biodiversity will not change</p> <p>Negative Impact: Biodiversity will not decrease</p>	Medium Positive	Yes	Yes	<p>Provide net gain mitigation if required and seek enhancement in projects of all types and scale</p> <p>In line with the SHDG and targeted passivhaus standard of the proposed development, a target 20% increase to level of on-site biodiversity is proposed</p>	Yes. This scheme is however to be developed to Passivhaus standard as a pilot scheme of flats for the council. This is an important step in developing experiential learning ahead of stepping up to full net zero carbon delivery.

**Weighing up the negative and positive impacts of your project, what is the overall rating you are assigning to your project?:**

**Net Low Positive**

*This overall rating is what you need to include in your report/ budget proposal, together with your explanation to be included in the red box below*

<b>Guidance on Assessing the Degree of Negative and Positive Impacts:</b>	
<i>Note: Not all of the considerations/ criteria listed below will necessarily be relevant to your project</i>	
<b>Low Impact (L)</b>	<ul style="list-style-type: none"> <li>* No publicity</li> <li>* Relevant risks to the Council or community are Low or none</li> <li>* No impact on service or corporate performance</li> <li>* No capital assets; or capital assets with lifetime of less than 3 years</li> </ul>
<b>Medium Impact (M)</b>	<ul style="list-style-type: none"> <li>* Local publicity (good or bad)</li> <li>* Relevant risks to the Council or community are Medium</li> <li>* Affects delivery of corporate commitments</li> <li>* Affects service performance (e.g.: energy use; amount of waste; distance travelled) by more than 10%</li> <li>* Capital assets with a lifetime of more than 3 years</li> </ul>
<b>High Impact (H)</b>	<ul style="list-style-type: none"> <li>* National publicity (good or bad)</li> <li>* Relevant risks to the Council or community are Significant or High</li> <li>* Affects delivery of regulatory commitments</li> <li>* Affects corporate performance by more than 10%</li> </ul>
	<ul style="list-style-type: none"> <li>* Capital assets with a lifetime of more than 6 years</li> </ul>

In the box below please summarise the projects impacts (the reasons for the ratings given in column E and F above) to explain how the overall rating for the project/ proposal has been derived (Cell E37). Please also highlight any negative impacts your project may have and how you plan to avoid, mitigate or compensate for these (as you will have detailed in column I above).

The delivery of this housing development scheme links directly to the cities objective of being Net Zero Carbon by 2030, providing new homes to net Passivhaus-standard with a fabric-led approach.

The councils housing development programme as approved notes a step up in delivery toward net zero, and this pilot flatted scheme is a priority toward experiential learning on the delivery to such standards. The development will be fully designed to allow retrofit to Net zero at a future time as financial viability allows.

All housing development is conducted in line with the updated Sustainable Housing Design Guide and sets clear requirements in terms of water use, biodiversity and other targets required to be met by new developments to meet the overall environmental objectives of the council.

Housing delivery by its nature will have a general impact on Energy use, Traffic and Waste generation, however:

- Energy Efficiency: The development will replace low efficiency homes with high efficiency PHPP standard homes, able to be retrofit to Net zero standard at a later date as financial viability allows.
- Transport: reduced resident parking is provided in line with the councils objectives, and allowance is made for installation of bike stores for all residents
- Waste generation: While waste generation through the construction process can be highly controlled, and is well regulated. New housing delivery will increase the housing capacity of the council and will increase general waste generation. Recycling facilities, separation of rubbish and secure stores will be placed to limit such generation.

Yes

No