

Climate implications toolkit

This toolkit is a self-assessment to help officers think about how their projects, procurements, commissioning, and services can align with H&F's net zero carbon target and sixth council value: "Rising to the challenge of the climate and ecological emergency". It also supports report authors to draft the climate implications section on decision reports, now required on decisions over £300,000 and procurement strategy reports.



How to use the tool

The self-assessment is intended to help officers reflect critically on their project or service's climate impact. We recommend you answer all the questions, even if the answer is 'not applicable'. It is a reflective tool, not a framework for approving or rejecting a decision, so it will work best if each question is considered honestly and carefully.



The next tab presents a set of questions about the initiative or decision against H&F's five 'climate challenges', and a drop-down range of answers. Each answer is colour-coded to indicate its climate impact and recommended way forward as follows:

Colour code	Recommendation
Dark green	Strong positive impacts for the climate emergency. Recommendation to proceed as is with this aspect.
Light green	Some positive impact for the climate emergency. Recommendation to further enhance this aspect where possible and proceed.
Yellow	Some negative impacts for the climate emergency. Recommendation to review these aspects and find mitigations where possible.
Red	Considerable inconsistency with the council's net zero objective. Strong recommendation to review these aspects and find mitigations.
Grey	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.

These questions should be considered for services, goods and projects we procure as well as those we deliver directly. Delivery models, specifications and tender evaluation should be shaped to ensure our contractors are aligned with our net zero commitment.

When answering these questions you should consider **direct** and **indirect** impacts. For example, a highways project to install traffic reduction measures might not use electric vehicles or plant in its delivery, but still lead to reduced vehicle use once in place.

Against each climate challenge, the toolkit presents possible actions to improve the climate impact of the decision.

Please email your completed copy of the form to Jim.Cunningham@lbhf.gov.uk and Hinesh.Mehta@lbhf.gov.uk, along with your draft climate implications for verification (if completing a report).

Version	Date
1.0	09/03/21
1.1	17/05/21

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Guidance for use

Please answer all questions from the drop-down options in the 'impact' column (C), including 'not applicable' as needed.

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Key to the colour coding of answers is given at the top of the page.

Name of project/service:	Hard FM Mechanical Maintenance contract
Brief description (1-2 sentences):	3-5 year maintenance contract for heating and cooling, Hvac, HWS, BMS and controls

Homes, buildings, infrastructure and energy

Question	Impact (select from list)	Reasons / possible mitigations
1 What effect will this project have on overall energy use (electricity or other fuels) e.g. in buildings, appliances or machinery?	Large or long-term reduction	well maintained appliance works more efficiently. Also replacement with modern technology that is A rated
2 What effect will this project have on the direct use of fossil fuels such as gas, petrol, diesel, oil?	Large or long-term reduction	well maintained appliance works more efficiently. Also replacement with modern technology that is A rated
3 Does this project further maximise the use of existing building space? <i>E.g. co-locating services; bringing under-used space into use; using buildings out-of-hours</i>	N/A	
4 Will any new building constructed or refurbishment be net zero carbon-ready in use? (<i>high levels of insulation, low energy demand per sq. m., and no servicing with fossil fuels such as gas heating</i>).	Yes	
5 Does this use more sustainable materials in building or infrastructure? <i>E.g. re-used or recycled construction materials; timber in place of concrete</i>	To some extent	Newer equipment would have more sustainable source of material but they are pretty standard.
6 Does this use more sustainable processes in any building or infrastructural work? <i>E.g. modular and off-site construction; use of electrical plant instead of petrol/diesel</i>	To some extent	All installation work on site, manufacture off site
7 Will this increase the supply of renewable energy? <i>e.g. installing solar panels; switching to a renewable energy tariff</i>	Yes	With heat source pumps or electrical boilers, less reliant on fossil fuels
8 Do any appliances or electrical equipment to be used have high energy efficiency ratings?	Yes	all new installs, Heating, HVAC, AC, etc

Ways to align with net zero:

- Insulate buildings to a high standard.
- Include energy efficiency measures when carrying out refurbishment.
- Replace gas boilers with renewable heating, such as heat pumps.
- Construct new buildings to a net zero standard (see the LETI design guide: <https://www.leti.london/cedg>)
- Design and deliver buildings and infrastructure with lower-carbon materials, such as recycled material and timber frames.
- Use construction methods that reduce overall energy use, such as modular, factory-built components, or use of electrical plant on-site.
- Install solar panels or other renewable energy generation, and consider including battery storage.
- Switch to a renewable energy provider.
- Use energy-efficient appliances.
- Install low-energy LED lighting.
- Install measures to help manage building energy demand, such as smart meters, timers on lighting, or building management systems.

Travel

Question	Impact	Reasons / possible mitigations
9 Reducing travel: what effect will this project have on overall vehicle use?	Modest or short-term reduction	Looking for multitradesmen that can deal with more than one discipline meaning less engineers driving around
10 Will this project use petrol or diesel vehicles?	Yes	Currently mostly diesel vans used by contractors, but are slowly moving towards electric and hybrids
11 Will this support people to use active or low-carbon transport? <i>E.g. cycling, walking, switching to electric transport</i>	N/A	
12 Will it be easily accessible for all by foot, bike, or public transport, including for disabled people?	N/A	
13 Has the project taken steps to reduce traffic? <i>Using e-cargo bikes; timing activities or deliveries to be outside peak congestion times</i>	Yes	Yes consideration will be given with logistic as well to group visits, on site engineers and 1st time fixes

Ways to align with net zero:

- Reduce the need to travel e.g. through remote meetings, or rationalising routes and rounds.
- Share vehicles or substitute different modes of travel, rather than procuring new fleet.
- Specify electric vehicles for new fleet or for services involving transport.
- Support users and staff to walk, cycle, or use public transport e.g. with cycle parking, training, incentives.
- Use zero-emission deliveries e.g. H&F's e-cargo bike service.
- Model and mitigate the project's effect on traffic and congestion e.g. retiming the service or deliveries

Consumption		
Question	Impact	Reasons / possible mitigations
14 Has this project considered ways to reuse existing goods and materials to the greatest extent possible, before acquiring newly manufactured ones?	To some extent	End of life parts would need to be replaced for more efficient ones
15 Does it reduce reliance on buying newly manufactured goods? <i>E.g. repair and re-use; sharing and lending goods between services or people; leasing or product-as-a-service rather than ownership</i>	Yes	
16 Does it use products and resources that are re-used, recycled, or renewable?	To some extent	AC gas is recycled, reused parts for older model equipment
17 Does it enable others to make sustainable choices within their lifestyles, or engage people about this?	N/A	
18 Is there a plan to reduce waste?	Yes	less packaging and less to landfill
19 Has it taken steps to ensure any food it offers is more sustainable? <i>E.g. minimal meat and dairy; minimises food waste; seasonal produce; locally sourced.</i>	N/A	

Ways to align with net zero:

- Procure goods through sharing, leasing, or product-as-a-service models rather than ownership.
- Use pre-owned and reconditioned goods, and reduce reliance on procuring new goods.
- Use recycled materials, and procure items that can be reconditioned or recycled at end-of-life.
- Use lifecycle costing in business cases to capture the full cost of operation, repair and disposal of an item.
- Reduce meat and dairy in food provision.
- Design waste, including food waste, out of business models e.g. separating (and composting) food waste; replacing single-use items with reusable items.
- Use contact points with residents and businesses to engage and enable them to adopt low-waste, low-carbon behaviours.

Ecology		
Question	Impact	Reasons / possible mitigations
20 What effect does this project have on total area of green space?	Neutral	
21 Does the project create more habitat for nature? <i>E.g. native plants, trees, and flowers</i>	N/A	
22 Does it make changes to green space that can have a negative impact on nature? <i>E.g. use of pesticides, reduced extent and variety of plants, planting non-native</i>	N/A	
23 Does it help people understand the value of biodiversity, and encourage them to support it in their private and community spaces?	N/A	

Ways to align with net zero:

- Avoid converting green space to hard surfacing.
- Use underutilised space for planting, such as green roofs and walls.
- Plant native plants and perennials, rather than non-native ornamental species, to encourage biodiversity.
- Reduce trimming of grass and hedges, and avoid use of pesticides.
- Provide space for animals e.g. long grass areas, bird boxes, bat boxes, 'insect hotels'

Adaptation		
Question	Impact	Reasons / possible mitigations
24 Does any planned construction or building use include measures to conserve water?	Yes	optimisation of water systems
25 Does any planned infrastructure or building use consider how to sustainably protect people from extreme heat?	Yes	usage of cooling and ventilation efficiently with room heat gain and air exchange
26 Has any planned building work or infrastructure considered how to mitigate flood risk? <i>E.g. Sustainable Drainage Systems (SuDS); de-paving areas; green roofs</i>	N/A	
27 Does any planned infrastructure or building work increase the overall footprint of hard surfacing? (as opposed to green or permeable surfacing)	N/A	
28 Has the project considered its own resilience to future extreme heat, flood risk, or water shortage?	Yes	Ventillation and cooling to work efficiently

Ways to align with net zero:

- Install water-saving devices in taps, showers and toilets
- Re-use grey water in new developments
- Ensure all new building or refurbishment (especially of homes) models and mitigates future overheating risk, with adequate ventilation and shading
- Avoid increasing areas of hard surfacing.
- Convert hard surfacing to green and permeable surfacing where possible, and install Sustainable Drainage systems (SuDS).
- Plant drought-tolerant plants

Engagement and influence		
Question	Impact	Reasons / possible mitigations
29 Does this project raise awareness and understanding of the climate and ecological emergency, and the steps that people can take?	N/A	

Ways to align with net zero:

- 'Make every contact count', by using contact points with residents and businesses to promote understanding of the climate emergency.