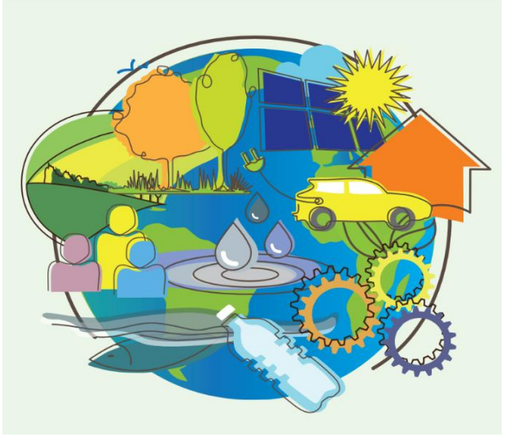
TRDC Climate and Sustainability Impact Assesment



This toolkit is a self-assessment to help officers think about how their policies, projects, procurements, commissioning and services can align with Three Rivers' Climate Emergency and Sustainability Strategy. It also supports report authors to draft the environmental implications section on decision reports, 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 environmental impact. . 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.
We envision this tool will be used early in the design of a project/policy/procurement to identify areas where environmental harms can be mitigated, and environmental benefits enhanced. If you would like advice, please discuss with your Head of Service, and contact the Climate and Sustainability Team if necessary.
Once you are happy that your proposal is optimised, then complete this form, and copy the results in each section in to your decision report (committee/synopsis report) where applicable.

The next tab presents a set of questions about the proposal on a range of sustainability criteria. Each answer is colour-coded to indicate its environmental impact as below:

Colour code	Recommendation
Dark green (4)	Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.
Light green (3)	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.
Yellow (2)	Some negative impacts sustainability. Recommendation to review these aspects and find mitigations where possible.
Red (1)	Considerable inconsistency with the council's sustainability objectives. Strong recommendation to review these aspects and find mitigations.
Grey (0)	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.

Once you've selected your answer in the "Impact" column (C), then give the relevant score in the "Score" column (E). Higher scores indicate more sustainable proposals.

Against each area, the assessment presents prompts to highlight best practice suggestions and enable consideration of how negative impacts could be lessened on a project.

This assessment was inspired by Jim Cunningham at Hammersmith and Fulham Council and developed by officers of Three Rivers Distrcit Council.

Version	**Date**
1	

TRDC Climate and Sustainability Impact Assesment

Score / Colour Code	Impact and Recommendation
Dark green (4)	Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.
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Yellow (2)	Some possible negative impacts for sustainability. Recommendation to rewiew these aspects and find mitigations where possible.
Red (1)	Considerable inconsistency with the council's sustainability objectives. Strong recommendation to review these aspects and find mitigations.
Grey (0)	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.

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

Please email your completed copy of the form to Joanna.Hewitson@threerivers.gov.uk.

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

Name of project/policy/procurement and date		Expand Watford Beryl Bike into Croxley Green
Brief description (1-2 sentences):		Beryl are a certified B Corp organisation and the scheme will remove journeys powered by fossil fuels by providing bike and e-bike rental in Croxley Green as an extension of the Watford scheme.

Homes, buildings, infrastructure, equipment and energy

	Question	Impact (select from list)	Score (-1 to 4)	Justification or mitigation	Impact (select from list)	Revised Score (-1-4)
1	**What effect will this project have on overall energy use (electricity or other fuels) e.g. in buildings, appliances or machinery?**	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3	The UK assembly of the bikes uses 100% renewable energy. End of life bikes are recycled and materials where possible are reused at the manufacturers	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3
2	**What effect will this project have on the direct use of fossil fuels such as gas, petrol, diesel, oil?**	**Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.**	4		Neutral or not applicable. Recommendation to consider how benefits could be achieved in this	0
3	**Does this project further *maximise* the use of existing building space?** *E.g. co-locating services; bringing under-used space into use; using buildings out-of-hours*	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0		Neutral or not applicable. Recommendation to consider how benefits could be achieved in this	0
4	**Will any new building constructed or refurbished be highly energy efficient in use?** *(e.g. high levels of insulation, low energy demand per sq. m., no servicing with fossil fuels such as gas heating, EPC*	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0		Some positive impact for sustainability. Recommendation to further enhance this aspect where	3
5	**Does this *make use of sustainable materials / unputs* in your project?** *E.g. re-used or recycled construction materials; timber in place of concrete*	**Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.**	3	End of life bike raw materials are, where possible returned to manufacturers for re-use	Some positive impact for sustainability. Recommendation to further enhance this aspect where	3
6	**Does this use more sustainable processes in the creation of the project?** *E.g. modular and off-site construction; use of electrical plant instead of petrol/diesel,*	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0		Neutral or not applicable. Recommendation to consider how benefits could be achieved in this	0
7	**Will this increase the supply of renewable energy?** *e.g. installing solar panels; switching to a renewable energy tariff*	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0		Neutral or not applicable. Recommendation to consider how benefits could be achieved in this	0
8	**Do any appliances or electrical equipment to be used have high energy efficiency ratings?**	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0		Neutral or not applicable. Recommendation to consider how benefits could be achieved in this	0
	Average Score		**3.33**			**3.00**

Ways to optimise sustainability and work towards net zero carbon:

- Insulate buildings to a high standard.
- Include energy efficiency measures when carrying out refurbishment to deliver improvement in EPC ratings.
- Replace gas boilers with renewable heating, such as heat pumps. Consider District Heat Networks where appropriate.
- Construct new buildings to Passivhaus standard.
- 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 certified renewable energy provider e.g. utilise power purchase agreements (PPA)
- 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	Score (0-4)	Justification or mitigation	Impact (select from list)	Revised Score (0-4)
9	Reducing travel: what effect will this project have on overall vehicle use?	Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4	Will reduce vehicle traffic by switching journeys to bikes	Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4
10	Will this project use petrol or diesel vehicles or EV, hybrid?	**Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.**	3	will have an impact on particulate pollution but overall the scheme should have reduction effect on carbon and particulates due to less car journeys. Need to encourage Beryl to collect bikes in electric vehicles. Overall though it is	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3
11	Will this support people to use active or low-carbon transport? *E.g. cycling, walking, switching to electric transport*	Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4	Yes	Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4
12	Will it be easily accessible for all by foot, bike, or public transport, including for *disabled people*?	Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4	Yes 15 bikes will be strategically located in high traffic (people) areas in Croxley Green and the network is linked to Watford.	Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4
13	Has the project taken steps to reduce traffic? *Using e-cargo bikes; timing activities or deliveries to be outside peak congestion times*	Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4	Yes	Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4
	Average Score		**3.80**			**3.80**

Ways to optimise sustainability and work towards net zero carbon:

- 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, hybrid, or most fuel efficient 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
- Model and mitigate the project's effect on traffic and congestion e.g. retiming the service or deliveries

Goods and Consumption

	Question	Impact	Score (0-4)	Justification or mitigation	Impact (select from list)	Revised Score (0-4)
14	Has this project considered ways to reuse existing goods and materials to the greatest extent possible, before acquiring newly manufactured ones?	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3	At contract end bikes will be find another user; either sold back to Beryl - or repurposed for staff	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this	0
15	Does it reduce reliance on buying newly manufactured goods? *E.g. repair and re-use; sharing and lending goods between services or people; leasing or product-as-a-service rather than ownership*	Some possible negative impacts for sustainability. Recommendation to rewiew these aspects and find mitigations where possible.	2	If practical - consideration of re-purposed bikes instead of buying new, but bikes will be re-used at end of scheme if the contract ends	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3
16	Does it use products and resources that are re-used, recycled, or renewable?	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3	Beryl returns some parts to the raw material to manufacturers for re-use. Beryl are Certified B Corp organisation and do continuous life cycle assesment to improve the circularity of their service	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3
17	Does it enable others to make sustainable choices within their lifestyles, or engage people about this?	Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4		Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4
18	Is there a plan to reduce waste sent to landfill in manufacture?	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3	Bike life-cycles are maximised by undertaking regular checks and repairs. Bikes will find a second user at the end of the contract	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3
19	Is the material used able to be re-used, re-purposed, or recyled at end of its life?	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3	When a bike cannot be repaired or upcycled, it reaches its "end of life". Beryl aim to recycle as much as possible, including hard-to-recycle waste such as lithium-ion batteries, bike tyres and inner tubes with accredited recycling partners.They aim to reduce, as much as possible, the amount of waste sent to landfill and maximise circularity	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3
20	Has it taken steps to ensure any food it offers is more sustainable? *E.g less and high-quality (high welfare) meat and dairy; minimises food waste; seasonal produce; locally sourced.*	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0		Neutral or not applicable. Recommendation to consider how benefits could be achieved in this	0
	Average Score		**3.00**			**3.20**

Ways to optimise sustainability and work towards net zero carbon:

- 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.
- Ensure meat and dairy is high-quality, high-welfare.
- Design waste, including food waste, out of business models e.g. separating (and composting) food waste; replacing single-use items with reusable items.
- Use contract points with residents, community groups and businesses to engage and enable them to adopt low-waste, low-carbon behaviours.

Ecology

	Question	Impact	Score (0-4)	Justification or mitigation	Impact (select from list)	Revised Score (0-4)
21	What effect does this project have on total area of non-amenity green/blue space? (Amenity green space = playing fields, play areas, sporting lakes etc. Non-amenity= e.g. woodland, grassland, wetland,	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0		Neutral or not applicable. Recommendation to consider how benefits could be achieved in this	0
22	Does the project create more habitat for nature? E.g. native plants, trees, and flowers	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0		Neutral or not applicable. Recommendation to consider how benefits could be achieved in this	0
23	Does it make changes to existing habitats and have a negative impact on nature? *E.g. use of pesticides, reduced extent and variety of plants, planting non-native species*	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0		Neutral or not applicable. Recommendation to consider how benefits could be achieved in this	0
24	Does it help people understand the value of biodiversity, and encourage residents to support it in their private and community spaces?	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0		Neutral or not applicable. Recommendation to consider how benefits could be achieved in this	0
	Average Score		#DIV/0!			#DIV/0!

Ways to optimise sustainability and work towards net zero carbon:
(Seek advice from Landscapes Team if required)

- 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 synthetic pesticides.
- Provide space for animals e.g. long grass areas, bird boxes, bat boxes, 'insect hotels', ponds.

Adaptation

	Question	Impact	Score (0-4)	Justification or mitigation	Impact (select from list)	Revised Score (0-4)
25	Does any planned project, construction or building use include measures to conserve water?	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0		Neutral or not applicable. Recommendation to consider how benefits could be achieved in this	0
26	Does anythe project , consider how to *sustainably* protect people from extreme weather?	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0		Neutral or not applicable. Recommendation to consider how benefits could be achieved in this	0
27	Has any planned building work or infrastructure considered how to mitigate flood risk? *E.g. Sustainable Drainage Systems (SuDS); de-paving areas; green roofs*	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0		Neutral or not applicable. Recommendation to consider how benefits could be achieved in this	0
28	Does any planned infrastructure or building work increase the overall footprint of hard surfacing? (as opposed to green or permeable surfacing)	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0		Neutral or not applicable. Recommendation to consider how benefits could be achieved in this	0
29	Has the project considered its own resilience to future extreme heat, flood risk, or water shortage?	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0		Neutral or not applicable. Recommendation to consider how benefits could be achieved in this	0
	Average Score		#DIV/0!			#DIV/0!

Ways to optimise sustainability and work towards net zero carbon:

- Install water-saving devices in taps, showers and toilets
- Re-use grey water in new developments
-Capture and re-use rainwater where possible e.g. water butts for use in car washing, watering garden, toilets
- 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 and mulch landscapes to avoid water loss through evaporation.

Engagement and Influence

	Question	Impact	Score (0-4)	Justification or mitigation	Impact (select from list)	Revised Score (0-4)
30	Does this project raise awareness and understanding of the climate and ecological emergency, and the steps that people can take?	Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4		Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4
	Average Score		**4**			**4**

Ways to optimise sustainability and work towards net zero carbon:

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

Total Overall Average Score		**3.53**			**3.5**

application.

Climate and Sustainability Impact Assessment Summary	
Homes, buildings, infrastructure, equipment and energy	3.00
Travel	3.80
Goods and Consumption	3.20
Ecology	3.20
Adaptation	#DIV/0!
Engagement and Influence	4
Total Overall Average Score	**3.5**

List 1		List 2	List 3
Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4	No	No
Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3	To some exter	N/A
Some possible negative impacts for sustainability. Recommendation to review these aspects and find mitigations where possible.	2	N/A	
Considerable inconsistency with the council's sustainability objectives. Strong recommendation to review these aspects and find miti	-1		
Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0	Yes	Yes

Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0
Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4
Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3
Some possible negative impacts for sustainability. Recommendation to review these aspects and find mitigations where possible.	2
Considerable inconsistency with the council's sustainability objectives. Strong recommendation to review these aspects and find miti	-1

Ok -	excel
Light green (3)	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.
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