TRDC Climate and Sustainability Impact Assessment

Score / Colour Code	Impact and 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 possible negative impacts for 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.

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 CIL@threerivers.gov.uk

Key to the colour coding of answers can be found at the top of the page.

Name of project/policy/procurement and date:		OFF-STREET (CAR PARKS) ELECTRIC VEHICLE CHARGING POINTS IMPLEMENTATION
Brief description (1-2 sentences):		The installation of Electric Vehicle Charge Points (EVCP) in council owned car parks using external government grants and/or Community Infrastructure Levy (CIL) funding.

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 possible negative impacts for sustainability. Recommendation to review these aspects and find mitigations where possible.	2	Explore opportunities to pair with community Energy projects in particular car park solar arrays, where possible opt for a renewable energy provider/tarriff	Some positive impact for sustainability. Recommendation to further enhance this aspect where	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		Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4
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*	Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4	Increases the utilisation of exisiting council land/ carparks	Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4
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 "A" or BREAM "excellent"*	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0	No direct changes to buildings	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0
5	Does this make use of sustainable materials / inputs in your project? *E.g. re-used or recycled construction materials, timber in place of concrete*	Some possible negative impacts for sustainability. Recommendation to review these aspects and find mitigations where possible.	2	embedded carbon of installation. Priorisation has been given to sites which require lower DNO alterations. Charging Point Operator to provide 'green' credientials	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0
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*	Some possible negative impacts for sustainability. Recommendation to review these aspects and find mitigations where possible.	2	constructed off site ready for install to the 'passive' charging infrastructure. Operator/ installer to share details of estimated carbon imapct of installation of passive and above	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0
7	Will this increase the supply of renewable energy? *e.g. installing solar panels; switching to a renewable energy tariff*	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3	Will not have direct impact on renewable energy generation but does support the transition to a renewable energy transport infrastructure.	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3
8	Do any appliances or electrical equipment to be used have high energy efficiency ratings?	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3	Charging Point Operator to share details on energy efficency/ charging loses of the proposed charging points.	Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4
	Average Score		**2.86**			**3.60**

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	Whilst this project will not reduce vehicle use, it supports the transition to more sustainable, zero emission vehicles.	Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4
10	Will this project use petrol or diesel vehicles?	Some possible negative impacts for sustainability. Recommendation to review these aspects and find mitigations where possible.	2	As part of the installation and maintance of the charging points it likely that ICE vehicles will be used. Explore opportunities to mitgate this with EVCP provider.	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0
11	Will this project 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	Whilst this project will not reduce vehicle use, it supports the transition to more sustainable, zero emission vehicles.	Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4
12	Will this project 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	All charging points to be compliant (where appropriate) with accessibility standards detailed in PAS 1899:2022	Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4
13	Has the project taken steps to reduce traffic? *E.g. Using e-cargo bikes; timing activities or deliveries to be outside peak congestion times*	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 area, but otherwise proceed.	0
	Average Score		**3.50**			**4.00**

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. re-timing 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 re-use existing goods and materials to the greatest extent possible, before acquiring newly manufactured ones?	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

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

15	Does the project 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*	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 area, but otherwise proceed.	0
16	Does the project use products and resources that are re-used, recycled, or renewable?	Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4	Transitions transport away from fossil fuels to the electric grid which is able to become renewable.	Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4
17	Does the project 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	Enables the uptake of zero emission vehicles.	Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4
18	Does the project have a plan to reduce waste sent to landfill in manufacture?	Some possible negative impacts for sustainability. Recommendation to review these aspects and find mitigations where possible.	2	Establish waste management process with EVCP provider/ installer	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this	0
19	Will the material(s) used on the project be 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	EVCPs are designed for longevity and have repairability considered as part of construction design.	Some positive impact for sustainability. Recommendation to further enhance this aspect where	3
20	Has the project taken steps to ensure any food offered or consumed is more sustainable? *E.g. less and high-quality (high welfare) meat and dairy, minimise food waste, seasonal and locally sourced produce.*	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		**3.25**			**3.67**

- 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, if procured or consumed.
- Choose seasonal and locally sourced produce, and plant-rich meals.
- 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, 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, gardens, lakes, rivers, ponds etc.)	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 area, but otherwise proceed.	0
22	Does the project create more habitat for nature? *E.g. planting native plants, trees, and flowers, creation of ponds or wetlands, provision of bird or bat boxes, installation of log piles or insect hotels*	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 the project make changes to existing habitats or have a negative impact on biodiversity? *E.g. use of pesticides, reduced extent and variety of plants, planting non-native species, light pollution, noise pollution, water pollution, disturbance to habitat, soil erosion , fragmentation of habitat*	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 area, but otherwise proceed.	0
24	Does the project help people understand the value of biodiversity, and encourage residents to support it in their private and community spaces?	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3	Placement of the carparks at green spaces encourages the use of these open spaces and community spaces.	sustainability. Recommendation to further enhance this aspect where possible and proceed.	3
	Average Score		**3**			**3**

Ways to optimise sustainability and work towards net-zero carbon:

- 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, hedgehog hides and passages, log piles
- Consider the ecological impacts from manufacture and use of procured goods, e.g. water pollution; water consumption; land use change for farming; pesticide use; organic/regenerative farming methods

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 include measures to conserve water? *E.g. low-flow taps and showerheads, water-efficient devices*	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 the project consider how to protect people from the effects of extreme weather? *E.g. including shading to prevent overheating*	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 on the project considered how to mitigate flood risk? *E.g. implementing Sustainable Drainage Systems (SuDS), de-paving areas, installing 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 building work or infrastructure on the project increase the total surface area covered by 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	EVCPs will be built on existing hard standing areas.	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this	0
29	Has the project considered its own resilience to extreme heat, flooding, or drought resulting from climate change?	Some possible negative impacts for sustainability. Recommendation to review these aspects and find mitigations where possible.	2	Explore feasible opportunities to improve drainage and flood resistance at carpark locations currently or likely to be suceptable to flooding.	Some positive impact for sustainability. Recommendation to further enhance this aspect where	3
	Average Score		**2.0**			**3.00**

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 to mitigate and adapt to these?	Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4	The project is a pivotal part of the councils Climate Change and Sustainability Strategy in promoting more sustainable transport in the district. The growing availability of EVCPs will support public opinion on the viability of electric vehicles.	Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4
	Average Score		**4**			**4**
	Total Overall Average Score		**3.10**			**3.5**

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 and ecological emergencies.

Now the assesment is complete, please include a copy of the completed assessment as part of your CIL application, and submit a copy of the form by email to Joanna.Hewitson@threerivers.gov.uk

Climate and Sustainability Impact Assessment Summary	
Homes, buildings, infrastructure, equipment and energy	3.60
Travel	4.00