# Appendix 4: Sustainability Checklist Template

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| **Applicant’s Name** |  |
| **Agent’s Name** |  |
| **Site Address** |  |
| **Description of Proposal** |  |
| **Date Checklist Completed** |  |

| **ID** | **Energy Carbon Reduction and On-site Low Carbon Energy** | **Yes / No / N/A** | **Minimum policy Requirement (marked with ✓)** | **Development Type** | **Summary of approach****Please also state which document this information is available i.e. Design & Access Statement including paragraph/page/plan reference** |
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|  | **Energy Efficient Residential Development** |  |  |  |  |
| ER1 | Do all the units in the scheme achieve a minimum of 31% carbon reduction Dwelling Emission Rate above the Target Emission Rate?Has the Carbon Reduction Statement (Appendix 5) been submitted with the application? |  |  | Minor ResidentialMajor Residential  |  |
|  | **Energy Efficient Non-residential Development** |  |  |  |  |
| ER2 | Have you carried out a BREEAM pre-assessment and met the mandatory energy requirements for BREEAM ‘excellent’? |  | **✓** | Minor Non-residentialMajor Non-residential |  |
|  | **Renewable Energy** |  |  |  |  |
| ER3 | Please set out how at least 10% of the development’s energy needs be met using renewable technologies. |  | **✓** | Minor ResidentialMajor ResidentialMinor Non-residentialMajor Non-residential |  |
| ER4 | To contribute to the reductions in carbon emissions and/or energy reductions, have a variety of energy saving and/or renewable energy measures been considered (such as those set out in this document)? |  |  | Minor ResidentialMajor ResidentialMinor Non-residentialMajor Non-residential |  |
| ER5 | Has the scope for connection of larger developments schemes to an existing District Heat and Cooling System, or CHP system been assessed?Has reference been made to the government’s CHP Focus site assessment tools?) Or has the incorporation of a new CHP system been considered? |  |  | Minor ResidentialMajor ResidentialMinor Non-residentialMajor Non-residential |  |
| ER6 | Have biomass energy sources been considered where this could have sustainability benefits? |  |  | Minor ResidentialMajor ResidentialMinor Non-residentialMajor Non-residential |  |
| ER7 | Have renewables technologies such as solar/PV or wind turbines been considered for the scheme, possibly in combination with other technologies such as those for storage of energy? |  |  | Minor ResidentialMajor ResidentialMinor Non-residentialMajor Non-residential |  |
| ER8 | Where solar panels are being incorporated have you considered the impacts of shadowing on the panels and how it could affect their power output and has the visual impact been minimised? |  |  | Minor ResidentialMajor ResidentialMinor Non-residentialMajor Non-residential |  |
| ER9 | How has the energy hierarchy been considered to prioritise reducing the need for energy and implementing the ‘fabric first approach’? |  |  | Minor ResidentialMajor ResidentialMinor Non-residentialMajor Non-residential |  |
| ER10 | Have ASHP/GSHP technologies been considered, particularly where there is available space? |  |  | Minor ResidentialMajor ResidentialMinor Non-residentialMajor Non-residential |  |
| ER11 | For all listed technologies, has consideration been given to the ecological/and or design requirements and suitability, and have air quality issues been assessed where this is an issue? |  |  | Minor ResidentialMajor ResidentialMinor Non-residentialMajor Non-residential |  |

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| **ID** | **Site Layout, landscaping, urban form and building design** | **Yes / No / N/A** | **Minimum policy Requirement (marked with ✓)** | **Development Type** | **Summary of approach****Please also state which document this information is available i.e. Design & Access Statement including paragraph/page/plan reference** |
|  | **Site layout, landscaping, urban form** |  |  |  |  |
| SL1 | Does the layout utilise design to minimise shadowing, and gain heating efficiencies? |  |  | Minor ResidentialMajor ResidentialMinor Non-residentialMajor Non-residential |  |
| SL2 | Has the planting of shrubs been considered for cooling the outside of buildings? |  |  | Minor ResidentialMajor ResidentialMinor Non-residentialMajor Non-residential |  |
| SL3 | How have mature or large trees on the site been retained and incorporated into the design of the new proposal? |  |  | Minor ResidentialMajor ResidentialMinor Non-residentialMajor Non-residential |  |
|  | **Building Design** |  |  |  |  |
| SL4 | Does the proposed site layout and building orientation demonstrate a consideration of passive design principles? |  |  | Minor ResidentialMajor ResidentialMinor Non-residentialMajor Non-residential |  |
| SL5 | How has the design and layout maximised natural light? |  |  | Minor ResidentialMajor ResidentialMinor Non-residentialMajor Non-residential |  |

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| **ID** | **Water Resources** | **Yes / No / N/A** | **Minimum policy Requirement (marked with ✓)** | **Development Type** | **Summary of approach****Please also state which document this information is available i.e. Design & Access Statement including paragraph/page/plan reference** |
|  | **Water Efficiency** |  |  |  |  |
| WR1 | Does the proposal comply as a minimum with Building Regulations water usage requirements limit of 110 litres per day, per person?Please submit evidence of water calculations using the <http://www.thewatercalculator.org.uk/> or equivalent tool. |  | **✓** | Minor ResidentialMajor Residential |  |
| WR2 | For non-residential development have you included information to demonstrate that your proposal will be able to meet the requirement for achievement of 5 credits from Wat01 of the BREEAM assessment? |  | **✓** | Minor Non-residentialMajor Non-residential |  |
|  | **Water Saving Measures – construction** |  |  |  |  |
| WR3 | Will the development require water-intensive processes for construction and, if so, have water-saving measures been proposed to reduce this? |  |  | Minor ResidentialMajor ResidentialMinor Non-residentialMajor Non-residential |  |
|  | **Rainwater Harvesting / Greywater Re-use** |  |  |  |  |
| WR4 | For water-intensive developments, has the storage of water been considered, for avoidance of drawing on public water supplies (e.g., golf courses)? |  |  | Minor Non-residentialMajor Non-residential |  |
|  | Have measures been included into the scheme to reduce the amount of treated/purified water that would need to be pumped to the site, for example through measures to allow the harvest/recycling of rain, or ‘grey’ water (for example for gardens and other non-drinking water uses such as flushing toilets or possibly washing)? |  |  | Minor ResidentialMajor ResidentialMinor Non-residentialMajor Non-residential |  |
|  | **Flood-risk, water run-off and Sustainable Drainage Systems (SuDS)** |  |  |  |  |
| WR5 | Have you designed-in measures to minimise surface water run-off, e.g., minimising paved areas and impermeable surfaces, or including soak-aways? |  |  | Minor ResidentialMajor ResidentialMinor Non-residentialMajor Non-residential |  |
| WR6 | Where paved surfacing is used, can it be permeable and enable enhanced water-storage? |  |  | Minor ResidentialMajor ResidentialMinor Non-residentialMajor Non-residential |  |
| WR7 | What measures have been included to address flood risk/rainwater attenuation? (For example, for landscaped areas, the inclusion of ponds or rainwater gardens, or for developments without landscaping possible green walls or roofs.) |  |  | Minor ResidentialMajor ResidentialMinor Non-residentialMajor Non-residential |  |
| WR8 | Have you considered incorporating sustainable urban drainage (SuDS) into your development proposal? |  |  | Minor ResidentialMajor ResidentialMinor Non-residentialMajor Non-residential |  |
| WR9 | Have you defined maintenance responsibilities for any proposed SuDS? |  |  | Minor ResidentialMajor ResidentialMinor Non-residentialMajor Non-residential |  |

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| **ID** | **Green Infrastructure** | **Yes / No / N/A** | **Minimum policy Requirement (marked with ✓)** | **Development Type** | **Summary of approach****Please also state which document this information is available i.e. Design & Access Statement including paragraph/page/plan reference** |
|  | **Greening for carbon capture and cleaner air (sequestration)** |  |  |  |  |
| GI1 | For developments on or close to roads, have trees or planting been considered for carbon capture and/or sequestration of air pollution (particles, etc)? |  |  | Minor ResidentialMajor Residential Minor Non-residentialMajor Non-residential |  |
|  | **Cooling/shading - greenspace and tree canopy** |  |  |  |  |
| GI2 | For denser urban developments, has greenery been included in some form - for cooling surrounds and buildings? |  |  | Minor ResidentialMajor Residential Minor Non-residentialMajor Non-residential |  |
| GI3 | Have evergreen trees been considered in designs, to allow for carbon capture (and capture of air pollution) in the autumn/winter months? |  |  | Minor ResidentialMajor Residential Minor Non-residentialMajor Non-residential |  |
|  | **Cooling buildings and their local environments** |  |  |  |  |
| GI4 | Does the scheme incorporate green roofs/walls?In denser developments, have green roofs/walls been included to allow for linkages between habitats for birds and invertebrates, for example through measures such as living pillars? |  |  | Minor ResidentialMajor Residential Minor Non-residentialMajor Non-residential |  |
|  | **Adaptation to climate changes – habitats, planting, and landscapes** |  |  |  |  |
| GI5 | Does the proposed scheme incorporate green infrastructure for increased resilience and adaptation to potential changes in climate? |  |  | Minor ResidentialMajor Residential Minor Non-residentialMajor Non-residential |  |
| GI6 | Will the proposal deliver a minimum of 10% in Biodiversity Net Gain, on and/or off-site?Please complete the Biodiversity Net Gain metric (currently Version 3) |  |  | Minor ResidentialMajor Residential Minor Non-residentialMajor Non-residential |  |
| GI7 | Where there is landscaping in schemes have native tree/planting species been considered for inclusion, and are they suitable for a changing climate? |  |  | Minor ResidentialMajor Residential Minor Non-residentialMajor Non-residential |  |
|  | **Water Drainage / Storage** |  |  |  |  |
| GI8 | Does the scheme incorporate any green infrastructure measures to assist with water attenuation? |  |  | Minor ResidentialMajor Residential Minor Non-residentialMajor Non-residential |  |
| GI9 | Have measures to conserve, enhance and/or restore biodiversity (including to assist pollinators) in and around the development been considered, including to compensate for habitats lost through development of brownfield land, or through changes to the climate? |  |  | Minor ResidentialMajor Residential Minor Non-residentialMajor Non-residential |  |
| GI10 | Where there are flood-risks and /or rainwater attenuation issues, have Sustainable Drainage Systems (SuDS) been considered – which can also assist in the enhancement/maintenance of wildlife habitats and eco-systems? |  |  | Minor ResidentialMajor Residential Minor Non-residentialMajor Non-residential |  |
| GI11 | Have you considered how green and blue spaces within the development will be connected to the wider green infrastructure assets of the district? |  |  | Minor ResidentialMajor Residential Minor Non-residentialMajor Non-residential |  |
| GI12 | How will you be protecting existing ecological features from damage during site preparation and completion of construction works where practicable? |  |  | Minor ResidentialMajor Residential Minor Non-residentialMajor Non-residential |  |
| GI13 | Does the proposal provide for on-going management of green and blue spaces, including biodiversity habitats? |  |  | Minor ResidentialMajor Residential Minor Non-residentialMajor Non-residential |  |

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| **ID** | **Development location and measures that enable sustainable lifestyles** | **Yes / No / N/A** | **Minimum policy Requirement (marked with ✓)** | **Development Type** | **Summary of approach****Please also state which document this information is available i.e. Design & Access Statement including paragraph/page/plan reference** |
| DL1 | Have you developed and submitted to HCC an appropriate Travel Plan, Transport Assessment and/or Statement (as appropriate)? |  | **✓** | Minor ResidentialMajor Residential Minor Non-residentialMajor Non-residential |  |
|  | **Accessibility to local services and public transport** |  |  |  |  |
| DL2 | Does the location of the proposed development minimise distances to the main employment centres, shops, recreation and community facilities, and schools? |  |  | Minor ResidentialMajor Residential |  |
| DL3 | Have you demonstrated how the development proposals give priority for walking and cycling over cars, linking the development with the surrounding walking and cycling network including planned projects? |  |  | Minor ResidentialMajor Residential Minor Non-residentialMajor Non-residential |  |
| DL4 | Does the proposal provide appropriate levels and standards of car parking in accordance with local guidance? |  | **✓** | Minor ResidentialMajor Residential Minor Non-residentialMajor Non-residential |  |
| DL5 | Will the development incorporate electric vehicle charging points (that are unobtrusive and avoid street clutter)? |  |  | Minor ResidentialMajor Residential Minor Non-residentialMajor Non-residential |  |
|  | **Bicycle parking and storage** |  |  |  |  |
| DL6 | Does the proposal provide appropriate levels of, and secure facilities for, cycle parking/storage? |  | **✓** | Minor ResidentialMajor Residential Minor Non-residentialMajor Non-residential |  |
|  | **Recycling Storage** |  |  |  |  |
| DL7 | Has consideration been given to internal/external recycling storage space? |  |  | Minor ResidentialMajor Residential Minor Non-residentialMajor Non-residential |  |
|  | **Community Food Growing** |  |  |  |  |
| DL8 | For major residential development of 100 dwellings or more, is there provision for allotments or opportunities for rooftop gardens? |  |  | Major Residential (schemes of 100 dwellings and above) |  |

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| **ID** | **Resources, materials and waste** | **Yes / No / N/A** | **Minimum policy Requirement (marked with ✓)** | **Development Type** | **Summary of approach****Please also state which document this information is available i.e. Design & Access Statement including paragraph/page/plan reference** |
|  | **Sustainable Sourcing of Materials & Durability** |  |  |  |  |
| RMW1 | Can the scheme demonstrate that the selection of materials has incorporated locally recycled or produced materials where possible? |  |  | Minor ResidentialMajor Residential Minor Non-residentialMajor Non-residential |  |
| RMW2 | Has a framework or certification scheme been used to establish the responsible sourcing of materials for the scheme? Or is there a clear rationale for the materials selected? |  |  | Minor ResidentialMajor Residential Minor Non-residentialMajor Non-residential |  |
|  | **Embodied Carbon and Energy** |  |  |  |  |
| RMW3 | Has consideration been given to embodied carbon, and/or the submission of an embodied carbon assessment? |  |  | Minor ResidentialMajor Residential Minor Non-residentialMajor Non-residential |  |
|  | **Demolition and reclamation of building materials (and waste stream management)** |  |  |  |  |
| RMW4 | Where site demolition will be necessary, have procedures for the salvage of building materials been put in place (including any natural materials on site)Has regard been had to the Institution of Civil Engineers (ICE) demolition protocol? |  |  | Minor ResidentialMajor Residential Minor Non-residentialMajor Non-residential |  |
| RMW5 | Has consideration been given to whether any of the salvage could be recycled back into the proposed development? Or how materials can be sustainably recycled? |  |  | Minor ResidentialMajor Residential Minor Non-residentialMajor Non-residential |  |
| RMW6 | Where viable mineral resources are available, has consideration been given the prior extraction and use of these mineral resources? |  |  | Major ResidentialMajor Non-residential |  |
|  | **Construction operations** |  |  |  |  |
| RMW7 | Have you set out how construction will be undertaken and submitted a Construction Environment Management Statement or equivalent information?Is the construction company(ies) delivering the scheme part of a Considerate Constructors Scheme? |  |  | Minor ResidentialMajor Residential Minor Non-residentialMajor Non-residential |  |