# Planning Guidance Climate Change – October 2022

## Appendix 1: Climate Change Checklists

There are 2 checklists:

1. New build residential development, non-residential developments, and change of use.
2. Checklist Householder developments

## Checklist: New build residential development, non-residential developments, and change of use

### Section 2: Green Infrastructure and Climate Change.

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|  | **Measures that could be considered in the planning application submission?** | **Has this been considered in the planning application submission? (Yes/No/ Not Applicable).** | **If yes, please signpost to relevant information within planning application submission** |
| **Green Infrastructure** | Green infrastructure in private outdoor space – e.g., trees, hedges, green roofs, vertical climbers, and landscaping. |  |  |
|  | Retain existing hedges and trees wherever possible. Restore old hedgerows and plant new trees and formal hedgerows instead of fencing or walls. Helps to:* provide shade to buildings in the summer.
* regulate air temperature and reducing the ‘heat island effect.’
 |  |  |
|  | Public open space, streets and outdoor seating areas should be provided with trees for shade, to improve air quality and contribute to biodiversity. |  |  |
|  | Green spaces within blocks, green verges, and pocket parks. |  |  |
|  | Uses soft landscaping and permeable surfaces be used instead of hard surfacing. |  |  |
|  | Where practical, green roof and living wall vegetation should be used as they can improve the energy performance of a building |  |  |
| **Biodiversity** | Protect and enhance of biodiversity, making provision for well-connected green and blue infrastructure on and off site. |  |  |
|  | Provide as part of the development bird/bat boxes/ swift bricks /amphibian kerbs/ hibernacula/hedgehog holes/ hedgehog homes/garden ponds. |  |  |
|  | Provides for biodiversity net gain. |  |  |
|  | Protect and where possible enhance existing blue infrastructure, such as watercourses and water bodies.  |  |  |
|  | Other (please state): |  |  |

### Section 3: Managing Flood Risk, Drainage and Conserving Water.

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|  | **Measures that could be considered in the planning application submission?** | **Has this been considered in the planning application submission? (Yes/No/ Not Applicable).** | **If yes, please signpost to relevant information within planning application submission** |
| **Water Efficiency**  | Use of water efficiency measures in new developments to exceed Building Regulations (Part G) requirements. |  |  |
|  | Incorporate water saving devices such as low flush toilets. |  |  |
|  | Incorporate integrated rainwater/grey water systems to offset demand of new development. |  |  |
|  | Rainwater collection facilities such as communal rainwater tanks and water butts. |  |  |
|  | Meeting or exceeding the water consumption standards in BREEAM ‘Very Good.’ |  |  |
|  | Other (please state). |  |  |

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| **Flood Risk**  | Flood Risk Assessment and Drainage Strategy which:* Considered flooding from all sources.
* Direct development to areas with the lowest risk.
* Does not increase the risk of flooding elsewhere.
* Use the latest climate change allowance in Flood Risk Assessments.
* Where development is appropriate in flood risk areas, incorporation of flood resilience and resistance measures within new buildings.
* Use of permeable surfaces.
 |  |  |
|  | Other (please state). |  |  |
| **Sustainable Drainage Systems (SuDS)** | Achieve greenfield run-off rates and manage surface water run-off as close to its source as possible, in line with the drainage hierarchy. |  |  |
|  | SuDS water features are integrated, contribute to well-designed places, and positively address the character of the development. |  |  |
|  | Use of rainwater harvesting including private and communal rainwater collection and reuse points/water butts.  |  |  |
|  | Use of soakaways. |  |  |
|  | Use of landscape features - swales, wetlands, raingardens. |  |  |

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|  | Use of pond and basins. |  |  |
|  | Reinstate areas of floodplains and riverside meadows, restoring the natural course of rivers. Opening culverted watercourse. |  |  |
|  | Other (please state). |  |  |

### Section 4: Improving Building Design and Layout to Address Climate Change.

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|  | **Measures that could be considered in the planning application submission?** | **Has this been considered in the planning application submission? (Yes/No/ Not Applicable).** | **If yes, please signpost to relevant information within planning application submission** |
| **Energy Hierarch**  | Adherence to the energy hierarchy. |  |  |
| **Sustainable layout and design**  | Layout seeks to maximise solar gain across the scheme as a whole with buildings orientated to also maximise solar gain within this context. |  |  |
|  | Window positioning to maximise solar gain and natural light. |  |  |
|  | Natural shading, such as through building overhangs, balconies, grouping and trees. |  |  |
|  | Natural ventilation and easy to regulate ventilation (airtight when needed). |  |  |
|  | Solar/low energy internal and external lighting (e.g., LED lightbulbs). |  |  |
|  | Using a higher level of roof and wall insulation than required by Building Regulations. |  |  |
|  | High R-value glazing. |  |  |
|  | Other (please state). |  |  |

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| **Adaptable Buildings and External Space** | Design to allow for changes in the health, lifestyle and the mobility of the user, and technologies.  |  |  |
|  | Other (please state): |  |  |
| **Managing Waste and Using Sustainable Materials** | Use of locally sourced and sustainable building materials. |  |  |
|  | Use of materials that can be recycled at the end of their lifetime. |  |  |
|  | Incorporate the necessary space to facilitate recycling. |  |  |
|  | Other (please state). |  |  |

### Section 5: Low Carbon and Renewable Energy

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|  | **Measures that could be considered in the planning application submission?** | **Has this been considered in the planning application submission? (Yes/No/ Not Applicable).** | **If Yes, please signpost to relevant information within planning application submission** |
| **Reducing Carbon Emissions** | Use of low carbon and renewable energy for example solar panels, air source heat pumps and ground source heat pumps. |  |  |
|  | Connection to existing low carbon heat network including mine water heat. |  |  |
|  | Heating system and controls. |  |  |
|  | Heat recovery systems. |  |  |
|  | Are passive cooling/ventilation measures incorporated into the scheme? (Commercial developments only) |  |  |
|  | Ideally, non-residential developments of 1,000 square metres or more should, look to achieve carbon emissions reductions demanded by the BREEAM 'Very Good' standard. |  |  |
|  | Other (please state). |  |  |

### Section 6: Sustainable Transport – Reducing the Need to Travel.

It is stressed there are crossovers between the various sections which can mitigate and adapt to climate change.

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|  | **Measures that could be considered in the planning application submission?** | **Has this been considered in the planning application submission? (Yes/No/ Not Applicable).** | **If yes, please signpost to relevant information within planning application submission** |
| **The need to travel** | Does the layout and design help to reduce the need to travel and promote use of non-private car modes of travel for example through good pedestrian and cycling connections and access to public transport. |  |  |
| **Storage** | Is access to cycle and other vehicle storage convenient and secure?  |  |  |
| **Densities**  | Higher densities and mixed uses in sustainable locations and at key transport nodes. |  |  |
|  | Active frontages/edges with opportunities for natural surveillance. |  |  |
| **Facilitating Electric Vehicles** | Electric vehicle (EV) charge points |  |  |
|  | Other (please state). |  |  |

## Checklist Householder developments

It is stressed there are crossovers between the various sections which can mitigate and adapt to climate change.

### Section2: Green Infrastructure and Climate Change.

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|  | **Measures that could be considered in the planning application submission?** | **Has this been considered in the planning application submission? (Yes/No/ Not Applicable) If No or Not Applicable (N/A) please state reasons for this** | **If yes, please signpost to relevant information within planning application submission** |
| **Green Infrastructure** | Replacement tree planting where trees are to be removed. |  |  |
|  | Green/brown roofs and wall climbers. |  |  |
|  | At least one of the following: bird/bat boxes/swift bricks/hibernacula/ hedgehog holes/ hedgehog homes/garden ponds. |  |  |
|  | Other (please state): |  |  |

### Section 3: Managing Flood Risk, Drainage and Conserving Water.

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| --- | --- | --- | --- |
|  | **Measures that could be considered in the planning application submission?** | **Has this been considered in the planning application submission? (Yes/No/ Not Applicable) If No or Not Applicable (N/A) please state reasons for this** | **If Yes, please signpost to relevant information within planning application submission** |
| **Water Efficiency**  | Incorporate water saving devices such as low flush toilets. |  |  |
|  | Rainwater collection facilities such as rainwater tanks and water butts. |  |  |
| **Sustainable Drainage Systems (SuDS)** | Use of permeable surfaces for roads, car parking areas, hard surfacing, and pavements. |  |  |
|  | Use of soakaways. |  |  |
|  | Planting e.g., green/brown roofs, walls and green verges, blue roofs. |  |  |
|  | Use of raingardens. |  |  |
|  | Other (please state). |  |  |

### Section 4: Improving Building Design and Layout to Address Climate Change.

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|  | **Measures that could be considered in the planning application submission?** | **Has this been considered in the planning application submission? (Yes/No/ Not Applicable) If No or Not Applicable (N/A) please state reasons for this** | **If Yes, please signpost to relevant information within planning application submission** |
| **Reducing Carbon Emissions** | Window positioning to maximise solar gain. |  |  |
|  | Natural ventilation and easy to regulate ventilation (airtight when needed). |  |  |
|  | Solar/low energy internal and external lighting (e.g., LED lightbulbs). |  |  |
|  | Using a higher level of roof and wall insulation than required by Building Regulations. |  |  |
|  | High R-value glazing. |  |  |
|  | Use of heavy curtains, blinds and/or carpets. |  |  |
|  | Other (please state). |  |  |

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| **Optimising Development Orientation** | Buildings orientated to maximise solar gain. |  |  |
|  | Natural shading, such as through building overhangs, balconies, grouping and trees. |  |  |
|  | Other (please state). |  |  |
| **Adaptable Buildings and External Space** | Design to allow for changes in the health, lifestyle and the mobility of the user, and technologies.  |  |  |
|  | Other (please state). |  |  |
| **Using Sustainable Materials** | Retention and re-use of existing buildings. |  |  |
|  | Use of locally sourced and sustainable building materials. |  |  |
|  | Use of materials that can be recycled at the end of their lifetime. |  |  |
|  | Other (please state). |  |  |

### Section 5: Low Carbon and Renewable Energy

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| --- | --- | --- | --- |
|  | **Measures that could be considered in the planning application submission?** | **Has this been considered in the planning application submission? (Yes/No/ Not Applicable) If No or Not Applicable (N/A) please state reasons for this** | **If Yes, please signpost to relevant information within planning application submission** |
| **Reducing Carbon Emissions** | Use of low carbon and renewable energy for example solar panels, air source heat pumps and ground source heat pumps. |  |  |
|  | Connection to existing low carbon heat network including mine water heat. |  |  |
|  | Heating system & controls. |  |  |
|  | Heat recovery systems. |  |  |
|  | Other (please state). |  |  |

### Section 6: Sustainable Transport – Reducing the Need to Travel.

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| --- | --- | --- | --- |
|  | **Measures that could be considered in the planning application submission?** | **Has this been considered in the planning application submission? (Yes/No/ Not Applicable) If No or Not Applicable (N/A) please state reasons for this** | **If Yes, please signpost to relevant information within planning application submission** |
|  | Provision of habitable rooms facing the street at ground floor level with appropriate windows and doors to provide activity and allow for natural surveillance. |  |  |
|  | Safe, secure, and convenient cycle parking. |  |  |
|  | Other (please state). |  |  |
| **Facilitating Electric Vehicles** | Electric vehicle charging. |  |  |
|  | Other (please state). |  |  |