

Appendix 4: Sustainability Checklist Template

Applicant's Name	Bargate Homes
Agent's Name	SLR Consulting
Site Address	Land West of Beechlands Road, Medstead
Description of Proposal	Outline application with all matters reserved except for access, for up to 70 dwellings with vehicular and pedestrian accesses, public open space, landscaping and drainage and associated works.
Date Checklist Completed	02/05/2024

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
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?	N/A – to be undertaken at RM stage		Major Residential	Full details of the efficiency of the proposed homes will be a matter to be agreed at Reserved Matters stage; however, as set out in the submitted DAS the intention is to embed a range of measures into the design and function of each new home to improve energy efficiency.
Energy Efficient Non-residential Development					
ER2	Have you carried out a BREEAM pre-assessment and met the mandatory energy requirements for BREEAM 'excellent'?	N/A	✓	Minor Non-residential Major Non-residential	
Renewable Energy					
ER3	Please set out how at least 10% of the development's energy needs be met using renewable technologies.	Yes	✓	Major Residential	Refer to Sustainability Statement (Section 9 of the Planning Statement) and the DAS. Renewable technologies proposed to include: <ul style="list-style-type: none"> • Air Source Heat Pumps • EV Charging points to each plot • Photovoltaic Panels (PV) • Thicker wall cavity. • Water butts to each plot. •
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)?	Yes		Major Residential	As above
ER5	Has the scope for connection of larger developments schemes to an existing District Heat and Cooling System, or CHP system been assessed?	No		Major Residential	The scale of the proposal does not justify connection to such a scheme

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	Has reference been made to the government's CHP Focus site assessment tools?) Or has the incorporation of a new CHP system been considered?				
ER6	Have biomass energy sources been considered where this could have sustainability benefits?	No		Major 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?	Yes		Major Residential	It is intended that photovoltaic panels will be installed within the development
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?	N/A – detailed design to be considered at RM stage		Major Residential	
ER9	How has the energy hierarchy been considered to prioritise reducing the need for energy and implementing the 'fabric first approach'?	Yes		Major Residential	Refer to Sustainability Statement (Section 9 of the Planning Statement) and the DAS.
ER10	Have ASHP/GSHP technologies been considered, particularly where there is available space?	N/A – detailed design to be considered at RM stage		Major Residential	Air source heat pumps are proposed within the development.
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?	N/A – detailed design to be considered at RM stage		Major Residential	

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?	N/A – detailed design and layout to be		Major Residential	

		considered at RM stage			
SL2	Has the planting of shrubs been considered for cooling the outside of buildings?	N/A – detailed design and landscaping proposals to be considered at RM stage		Minor Residential Major Residential	
SL3	How have mature or large trees on the site been retained and incorporated into the design of the new proposal?	Yes		Major Residential	The vast majority of existing trees and vegetation within the site are proposed to be retained. Detailed design and layout is to be considered at RM stage.
Building Design					
SL4	Does the proposed site layout and building orientation demonstrate a consideration of passive design principles?	N/A – detailed design and layout to be considered at RM stage		Major Residential	
SL5	How has the design and layout maximised natural light?	N/A – detailed design and layout to be considered at RM stage		Major Residential	

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.	N/A – details of water consumption and water reduction measures are to be considered at RM stage	✓	Major Residential	Full details to be submitted at RM. However, the proposals shall not exceed the requirements of 110 litres per person per day.
WR2	For non-residential development have you included information to demonstrate that your proposal will be able	N/A	✓		

	to meet the requirement for achievement of 5 credits from Wat01 of the BREEAM assessment?				
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?	No		Major 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)?	N/A			
	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)?	N/A – details of specific water reduction measures are to be considered at RM stage		Major 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?	N/A – detailed site drainage measures are to be considered at RM stage		Major Residential	Details will be reserved for consideration at RM stage, but it is intended that sustainable drainage measure will be utilised to direct surface water away from the site to prevent the risk of flooding.
WR6	Where paved surfacing is used, can it be permeable and enable enhanced water-storage?	N/A – detailed site drainage measures are to be considered at RM stage		Major 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.)	N/A – detailed site drainage measures are to be considered at RM stage		Major Residential	It is intended that every effort will be made to sustainably address flood risk and surface water attenuation, with specific details to be considered at RM stage.
WR8	Have you considered incorporating sustainable urban drainage (SuDS) into your development proposal?	Yes		Major Residential	To be incorporated into the site design/layout at RM stage
WR9	Have you defined maintenance responsibilities for any proposed SuDS?	N/A – details of SuDS maintenance to be		Major Residential	

		considered at RM stage			
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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)				
G11	For developments on or close to roads, have trees or planting been considered for carbon capture and/or sequestration of air pollution (particles, etc)?	N/A – detailed landscaping proposals to be considered at RM stage		Major Residential	Existing trees to be retained and enhanced along the eastern edge of the development adjacent to Beechlands Road. Additional planting will be proposed within the site once the full landscape details are worked up at the detailed stage.
	Cooling/shading - greenspace and tree canopy				
G12	For denser urban developments, has greenery been included in some form - for cooling surrounds and buildings?	N/A – detailed landscaping proposals to be considered at RM stage		Major Residential	Greenery within the site and around the site boundaries will be included in the detailed site design to be considered at RM stage
G13	Have evergreen trees been considered in designs, to allow for carbon capture (and capture of air pollution) in the autumn/winter months?	N/A – detailed landscaping proposals to be considered at RM stage		Major Residential	Greenery (including specific species) within the site and around the site boundaries will be included in the detailed site design to be considered at RM stage
	Cooling buildings and their local environments				
G14	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?	No		Major Residential	
	Adaptation to climate changes – habitats, planting, and landscapes				

G15	Does the proposed scheme incorporate green infrastructure for increased resilience and adaptation to potential changes in climate?	N/A – detailed landscaping proposals to be considered at RM stage		Major Residential	Greenery within the site and around the site boundaries will be included in the detailed site design to be considered at RM stage
G16	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)	Yes		Major Residential	Please refer to the submitted BNG documents including the completed BNG Metric. On and off-site BNG mitigation to be proposed to achieve at least 10% net gain.
G17	Where there is landscaping in schemes have native tree/planting species been considered for inclusion, and are they suitable for a changing climate?	N/A – detailed landscaping proposals to be considered at RM stage		Major Residential	Greenery (including specific species) within the site and around the site boundaries will be included in the detailed site design to be considered at RM stage
Water Drainage / Storage					
G18	Does the scheme incorporate any green infrastructure measures to assist with water attenuation?	N/A – detailed landscaping and drainage proposals to be considered at RM stage		Major Residential	Green infrastructure within the site will be included in the detailed site design to be considered at RM stage
G19	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?	Yes		Major Residential	Please refer to the submitted BNG documents including the completed BNG Metric. On and off-site BNG mitigation to be proposed to achieve at least 10% net gain.
G10	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?	Yes		Major Residential	It is intended that every effort will be made to sustainably address flood risk and surface water attenuation, with specific details to be considered at RM stage.
G11	Have you considered how green and blue spaces within the development will be connected to the wider green infrastructure assets of the district?	Yes		Major Residential	Details of wildlife enhancements and linkages to the wider ecological network will be considered as part of the detailed site design to be considered at RM stage.
G12	How will you be protecting existing ecological features from damage during site preparation and completion of construction works where practicable?	Yes		Major Residential	Refer to the Arboriculture Impact Assessment (AIA) for details of proposed tree protection measures during site construction.

GI13	Does the proposal provide for on-going management of green and blue spaces, including biodiversity habitats?	Yes		Major Residential	Details of biodiversity management to be provided at RM stage, and secured through a s106 legal agreement
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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)?	Yes	✓	Major Residential	See submitted TA and draft Travel Plan
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?	Yes		Major Residential	Refer to Planning Statement for commentary on the site's sustainability and accessibility to local services.
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?	Yes		Major Residential	Refer to Planning Statement for commentary on the site's sustainability and accessibility for pedestrians and cyclists to local services.
DL4	Does the proposal provide appropriate levels and standards of car parking in accordance with local guidance?	Yes	✓	Major Residential	Details regarding parking space to accord with local guidelines to be considered at RM stage
DL5	Will the development incorporate electric vehicle charging points (that are unobtrusive and avoid street clutter)?	Yes		Major Residential	EV points to be installed at each dwelling
Bicycle parking and storage					
DL6	Does the proposal provide appropriate levels of, and secure facilities for, cycle parking/storage?	Yes	✓	Major Residential	Details regarding cycle parking space to accord with local guidelines to be considered at RM stage
Recycling Storage					
DL7	Has consideration been given to internal/external recycling storage space?	Yes		Major Residential	Details regarding recycling storage spaces to accord with local guidelines to be considered at RM stage
Community Food Growing					
DL8	For major residential development of 100 dwellings or more, is there provision for allotments or opportunities for rooftop gardens?	N/A			

ID	Resources, materials and waste	Yes / No / N/A	Minimum policy Requirement	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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			(marked with ✓)		
	Sustainable Sourcing of Materials & Durability				
RMW1	Can the scheme demonstrate that the selection of materials has incorporated locally recycled or produced materials where possible?	N/A – details of proposed materials to be considered at RM stage		Major Residential	It is intended that every effort will be made to include locally produced and recycled materials.
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?	N/A		Major Residential	
	Embodied Carbon and Energy				
RMW3	Has consideration been given to embodied carbon, and/or the submission of an embodied carbon assessment?	N/A		Major 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?	Yes		Major Residential	The stable buildings in the north-west corner of the site are proposed to be demolished to facilitate the development; and where feasible, any materials will be salvaged and re-used.
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?	Yes		Major Residential	As above
RMW6	Where viable mineral resources are available, has consideration been given the prior extraction and use of these mineral resources?	N/A		Major 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?	Yes		Major Residential	It is expected that a Construction Environment Management Plan (CEMP) will be secured by condition as part of the approval of this scheme.