

**Climate Change and Sustainability Checklist – Full Planning Applications (including Minor, Major and EIA Applications), Outline Applications including Major and EIA Developments), Technical Details Consent and Reserved Matters Applications.**

Relevant Local Plan Policy	Topic	Measures	Has this been considered in the planning application submission? (Yes/No/not Applicable) If No or Not Applicable please state reasons for this	If Yes, please signpost to relevant information within planning application submission
Minimising energy use in new developments (Chapter 2)				
CC1: Climate Change	Energy Hierarchy	Adherence to the energy hierarchy.	No	
CC2: Sustainable Construction and Design		Others (please state):		
CC3: Renewable Energy Development	Energy Efficiency measures	Demonstrate what energy efficiency measures are included in the planning application for the development (double glazing, EV charging points, etc.).	It is proposed to install 24mm double glazing in all doors and windows, to provide an EV charging point on the garage and to insulate the new house beyond the minimum requirements recommended by the Building Regulations.	Detailed information will be provided within the detailed construction/Building Regulations drawings in due course.
		State what renewable and/or low carbon energy generation technologies are included.	Solar PV panels together with a storage battery will be installed sufficient to serve the full electrical demands of the new dwelling. An air source heat pump will be installed to serve the central heating and hot water installations.	Ditto
		Demonstrate that low energy internal and external lighting (e.g. LED lightbulbs) is provided.	All light fittings both internal and external will be low energy LED fittings.	
		Draught proofing (strips on doors, proofing of floors).	All door and window openings will be constructed with thermal breaks.	
		Heating systems and controls (heat pumps, solar hot water panels, etc.).	See above.	
		Heat recovery systems.	See above.	

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		Connection to existing low carbon heat network.	See above.	
		A+++ standard white goods and boiler, smart meters	All new appliances will be rated AAA standard and a smart meter will be installed.	
		Cavity wall insulation, loft, and roof insulation, under floor insulation.	See above.	
		Other (please state):	See above.	
Sustainable site layout, landscaping, and orientation of buildings				
CC1: Climate Change	Design, layout, landscape, and orientation	Plot and dwelling orientation to optimise solar gain.	Principal rooms will be orientated to the south side maximising solar gain.	
CC2: Sustainable Construction and Design		Window positioning to optimise solar gain.	Ditto	
CC4: Flood Risk Management	Overheating	Demonstrate how the development will provide natural shading to avoid overheating	The site does not allow for shading because of its shape and open nature.	
NE1: Biodiversity and Geological Conservation	Fabric First measures	Ventilation systems are energy efficient and adequate to the size and function of a room.	Ventilation will be provided by opening windows and where required by Building Regulations mechanical ventilation sufficient to serve the room sizes and using energy efficient equipment.	
NE2: Green and Blue Infrastructure		Use of natural ventilation	Opening windows and doors fitted with trickle vents.	
		Insulation of floors and loft areas.	As a minimum to Building Regulations standards and beyond.	
		High-capacity gutters.	Gutters and rainwater goods sufficient to serve the roof areas over the buildings will be fitted.	

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Embodied carbon		Space provided for outdoor drying	A clothes drying area that will be provided within the garden relatively close to the house.	
	Embodied carbon	Re-use of existing buildings	Not applicable.	
		Use of materials with the lowest embodied carbon possible.	All materials will be sourced to ensure that low embodied carbon is used as far as is practicable.	
		Re-use of materials from the development site and use reclaimed or recycled materials.	All timber and hardcore from demolitions will be retained for re-use.	
		Use of local sustainable materials.	All materials will be obtained from sustainable sources.	
	Green and blue infrastructure	Protect and enhance existing green and blue infrastructure, such as green spaces and watercourses.	There garden around the house will be landscaped garden using locally sourced sustainable materials. There are no water courses in the immediate vicinity of the property.	
		Demonstrate how selected green infrastructure will enable cooling of the building.	N/A	
		Reinstate areas of floodplains and riverside meadows, restoring the natural course of rivers.	N/A	
		Ensure that any new green and blue infrastructure is connected to the wider habitat network.	N/A	
		Long term maintenance of green and blue infrastructure.	Hardwood and powder coated and uPVC doors, windows, fascia boards, soffites and uPVC rainwater goods will be installed to minimise long term maintenance.	
		Provide food growing spaces.	A kitchen garden will be created.	

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		Integrate green infrastructure into parking design.	The existing drive and parking area will be retained.	
		Other (please state):	N/A	
	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.	Existing	
		Demonstrate how the drainage hierarchy has been considered.	Existing	
		Use of blue roofs and rainwater harvesting including private and communal rainwater collection and reuse points/water butts.	It is proposed that a rainwater harvester tank will be installed to collect rain and surface water. This will be used for garden irrigation and brown water fittings in the house. An overflow will discharge to the existing pond.	
		Use of soakaways.	None	
		Use of landscape features - swales, wetlands, raingardens.	N/A	
		Use of natural water courses (unless not appropriate).	N/A	
		Other (please state):	N/A	
	Biodiversity Net Gain	Specify how BNG principles have been applied to the development.	N/A as existing residential site	
		Existing and new green infrastructure links with the wider green infrastructure network.	Ditto	

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		Demonstrate how biodiversity has been enhanced at the site.	Ditto	
Climate change resilience and adaptation				
CC1: Climate Change  CC4: Flood Risk Management	Flood risk	Demonstrate that development is located away from a river and floodplains.	The property is not located a flood risk area and is an exiting residential property.	
		Provide a site-specific flood risk assessment.	Not required.	
		Describe measures taken to minimise flood risk.	N/A	
		Demonstrate how the development is flood resistant.	N/A	
		Demonstrate what permeable surfaces will be implemented.	N/A	
		Provide a Landscape Management Plan (for large-scale sites).	N/A	
		Integrate flood risk solutions (e.g. safeguarding land for flood risk management, designing off-site works required to protect and support development).	N/A	
		Other (please specify):	None	
Use of sustainable resources and materials and sustainable management of waste				
CC1: Climate Change  CC2: Sustainable Construction and Design	Waste management	Provide a Site Waste Management Plan.	N/A	
		Provide facilities for waste sorting and recycling.	Separate storage containers to separate general waste and re-cyclable materials are presently used and will be retained.	
		Provide facilities for food waste and garden waste composting.	A garden composter will be installed.	

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	Re-use of materials	Re-use materials derived from any on-site demolition.	As stated above.	
	Modular design and circular economy principles	Use of modular prefabricated parts.	N/A	
		Demonstrate how construction and operational waste will be managed.	A specialist waste management company will be employed to handle all construction waste.	
	Circular economy	Demonstrate how the planned development conserved resources, increased resources efficiency, and adhered to sustainable sourcing of materials.	N/A	
		Demonstrate how the development prevented premature demolition of existing buildings.	N/A	
		Demonstrate how the whole lifecycle of the building has been considered.	N/A	
Water efficiency				
CC2: Sustainable Construction and Design	Water efficiency measures	Demonstrate how the development minimises the water use through installation of efficient appliances (A+++ white goods and boilers).	By using AAA rated appliances.	
		Demonstrate how greywater recycling has been integrated.	By installing a rainwater harvester.	
		Demonstrate how rainwater harvesting has been integrated.	A harvesting tank will be installed.	
Design to encourage use of sustainable forms of transport				
ST1: Sustainable	Reducing the need to travel	Development is accessible and provides an access to local facilities (concept of 15-minutes neighbourhood).	Existing residential property.	

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Transport		Provides a hub for remote working.	There is sufficient space within the house for remote home working and high speed broadband will be connected.	
		A Delivery and Servicing Plan (for major developments).	N/A	
		Provide segregated active travel routes within the development and connections to wider networks.	N/A	
		Provided cycle and walking paths are safe, secure, visible, and convenient.	N/A	
		Provision of cycle parking exceeds the minimum parking standard set out within the Council's Parking Guidelines document.	N/A	
		Charging stations for e-bikes are provided.	A charging point will be located within the existing range of outbuildings.	
		Development is within 5 minutes (400m) walk of the nearest bus stop with frequent and multiple bus services.	Existing residential property.	
		Large development is located within 10 minutes (800m) walk from a railway station.	N/A	
		Provide a Travel Plan (in accordance with the SCC Travel Plan Good Practice Guide).	N/A	
		Provides a car club scheme.	N/A	
		Development is mixed-use.	N/A	
		Residential development design aligns with the Surrey Design Guide and LTP4.	Existing residential property.	