

Sustainability Standards Checklist

Compliance with standard	Useful links
o achieve ultra-low energy demand arough design, these energy use intensity (EUI) targets should be met: Residential <35 kwh/m2.yr Office <55 kwh/m2.yr Research labs <55-240 kwh/m2.yr Retail <80 kwh/m2.yr Community space (e.g. health care) <100 kwh/m2.yr Sports and Leisure <80 kwh/m2.yr School <65 kwh/m2.yr School <65 kwh/m2.yr redictive energy modelling should be sed, for example Passive House Planning ackage, CIBSE TM54 or equivalent and arried out with the intention of meeting arget EUIs. Include the EUI target and explain what sesign measures have been included, for example form factor (efficiency of shape), arging metic febric performance.	Net Zero Carbon Toolkit: https://www.westoxon.gov.uk/environment/climate-action/how-to-achieve-net-zero-carbon-homes/ Project LEO – Local Energy Oxfordshire: https://project-leo.co.uk/ Cosy Homes Plan Builder: https://app.cosyhomesoxfordshire.org/ LETI Climate Emergency Design Guide: https://www.leti.london/cedg LETI Climate Emergency Retrofit Guide: https://www.leti.uk/retrofit LETI Embodied Carbon Primer: https://www.leti.london/ecp
	achieve ultra-low energy demand rough design, these energy use intensity JI) targets should be met: Residential <35 kwh/m2.yr Office <55 kwh/m2.yr Research labs <55-240 kwh/m2.yr Retail <80 kwh/m2.yr Community space (e.g. health care) <100 kwh/m2.yr Sports and Leisure <80 kwh/m2.yr School <65 kwh/m2.yr dictive energy modelling should be ed, for example Passive House Planning ckage, CIBSE TM54 or equivalent and cried out with the intention of meeting get EUIs.

		ventilation type and heating/cooling equipment performance.	Levitt Bernstein Easi Guide Passivhaus Design: https://www.levittbernstein.co.uk/research-writing/easi-guide-to- passivhaus-design/ CIBSE TM52 The limits of thermal comfort: avoiding overheating (2013): https://www.cibse.org/knowledge/knowledge-
2.	Has thermal comfort and the risk of overheating been assessed and passive design measures been prioritised?	Explain how thermal comfort and the risk of overheating has been assessed, and how passive design measures to mitigate for overheating risk have been prioritised over energy intensive alternatives, and in compliance with CIBSE TM52 for non-domestic buildings and CIBSE TM59 for domestic buildings.	items/detail?id=a0q2000000817f5AAC CIBSE TM54 Evaluating operational energy use at the design stage (2022): https://www.cibse.org/Knowledge/knowledge- items/detail?id=a0q2000000817f7AAC CIBSE TM59 Design methodology for the assessment of overheating risk in homes (2017):
3.	Is the development fossil fuel free?	No gas boilers. Explain what alternative heating systems will be installed, for example heat pumps or fully electrified system.	https://www.cibse.org/knowledge/knowledge- items/detail?id=a0q0O0000DVrTdQAL CIBSE TM65 Embodied carbon in building services: A calculation
	Will a net zero operational carbon balance be achieved and 100% of energy consumption delivered using renewables?	The development should achieve a zero-operational carbon balance and deliver 100% of energy using renewables. Include total kWh/yr of energy consumption of the buildings, accounting for both regulated and unregulated energy, on the site, and the total kWh/yr of energy generation by renewables to show that the zero carbon operational balance is met.	methodology (2021): https://www.cibse.org/knowledge/knowledge-items/detail?id=a0q3Y00000IPZOhQAP BRE Green Guide to Specification: https://www.bregroup.com/greenguide/podpage.jsp?id=2126 RIBA Embodied and whole life carbon assessment for architects: https://www.architecture.com/knowledge-and-resources/resources-landing-page/whole-life-carbon-assessment-for-architects
5.	Will embodied carbon emissions be minimised?	Explain how the development will minimise embodied carbon emissions. Cross reference lifecycle modelling, carried out to assess embodied carbon.	

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В	B Travel		
١.	Is home working	Explain what provisions have been made	Oxfordshire County Council active travel:
	supported?	to support home working, for example	https://www.oxfordshire.gov.uk/residents/roads-and-
		home study, dedicated work space, shared	transport/connecting-oxfordshire/active-travel-0
		community work space.	
2.	Has active travel	Explain how walking, cycling and public	Cycle infrastructure design (LTN1/20):
	been prioritised?	transport use will be prioritised over road	https://www.gov.uk/government/publications/cycleinfrastructure-
		users on the site and connections	design-ltn-120
		strengthened with the surrounding area.	
		Multimodal interchanges should been	Oxfordshire County Council electric vehicles:
		considered. Include details of routes and facilities, for	https://www.oxfordshire.gov.uk/residents/environment-and- planning/energy-and-climate-change/electric-vehicles
		example cycle parking, SMART bus stops.	Infrastructure for charging electric vehicles: Approved Document S:
3	Is shared mobility	Explain how shared mobility will be	https://www.gov.uk/government/publications/infrastructure-for-
٥.	facilitated?	facilitated, for example through investment	charging-electric-vehicles-approved-document-s
	lacintated.	in EV car clubs.	and any discurrences approved assuments
			Oxfordshire Innovation Framework for Planning and Development:
4.	charging charging of electric vehicles, infrastructure be scooters and bikes.	Provide details of infrastructure for the charging of electric vehicles, including	https://ehq-production-europe.s3.eu-west-
			1.amazonaws.com/88ac2c237fb12082d0d3b0584bde872dd4395887/o
		scooters and bikes.	riginal/1640104467/2c918d4a71e4f21c7302c01517b6566c_Draft_Inn
	provided?		ovation_Framework.pdf?X-Amz-Algorithm=AWS4-HMAC-
			SHA256&X-Amz-
			Credential=AKIA4KKNQAKICO37GBEP%2F20230524%2Feu-west-
			1%2Fs3%2Faws4_request&X-Amz-Date=20230524T231921Z&X-
			Amz-Expires=300&X-Amz-SignedHeaders=host&X-Amz-
			Signature=eb8647f512cf029fb3edcd33db29a327ca041fba06ed2d5312 8b9d8109a62946
_	Water		<u>80740107462746</u>
	Will water	<75 litres per person per day should be	RIBA 2030 Climate Challenge Version 2 (2021):
••	consumption be	strived for.	https://www.architecture.com/about/policy/climate-action/2030-
	minimised?	Include water efficiency calculations.	climate-challenge
		For multiple building types, provide a	
		cross section that is representative of the	UWLA Water Calculator:
		development.	http://www.thewatercalculator.org.uk/

2	Will water be	Explain what water conservation measures	Sanitation, hot water safety and water efficiency: Approved
۷.	conserved through	will be included, for example water butts	Document G:
	rainwater	•	https://www.gov.uk/government/publications/sanitation-hot-water-
		or more advanced systems.	safety-and-water-efficiency-approved-document-g
	harvesting or grey		salety-and-water-emciency-approved-document-g
_	water recycling?	Confirm that the flood risk assessment has	DDEEAM Non-domostic Duildings Tochnical Manuali
3.	Has the flood risk		BREEAM Non-domestic Buildings Technical Manual:
	assessment	accounted for climate change and explain	https://www.breeam.com/NC2018
	accounted for	the sustainable drainage measures	Environment Agency Guidance on Rainwater harvesting: regulatory
	climate change and	Cross reference the Flood Risk	position statement:
	is sustainable	Assessment (FRA) and ecological reports,	https://www.gov.uk/government/publications/rainwater-harvesting-
	drainage proposed?	where applicable.	regulatory-position-statement/rainwater-harvesting-regulatory-
			position-statement
			LIN/BLID :
			HVRH Rainwater harvesting design and installation guide (2016):
			https://www.cibse.org/knowledge/knowledgeitems/detail?id=a0q2000
			000817ogAAC
			Oxfordshire County Council Local standards and guidance
			for surface water drainage on major development in
			Oxfordshire:
			https://www.oxfordshirefloodtoolkit.com/wp-
			content/uploads/2022/01/LOCAL-STANDARDS-AND-GUIDANCE-
			FOR-SURFACE-WATER-DRAINAGE-ON-MAJOR-DEVELOPMENT-
			IN-OXFORDSHIRE-Jan-22-2.pdf
			Preparing a flood risk assessment: standing advice:
			https://www.gov.uk/guidance/flood-risk-assessment-standing-advice
			Check the long term flood risk for an area in England:
			https://www.gov.uk/check-long-term-flood-risk
1			CIRIA The SuDS Manual:
1			https://www.ciria.org/ItemDetail?iProductCode=C753&
1			

			Susdrain: https://www.susdrain.org/ Green roofs and living walls: https://livingroofs.org/
	Waste Will the construction company be registered with the Considerate Construction	Confirm in the Sustainability Statement that the construction company used will be registered with the Considerate Construction Scheme.	Considerate Constructors Scheme: https://www.ccscheme.org.uk/ Wrap: http://www.wrap.org.uk
2.	Scheme? Will a Site Waste Management Plan be followed and targets set for construction waste recycling and disposal?	Confirm that a Site Waste Management Plan (SWMP) will be followed and targets set for construction waste recycling and disposal.	Newham Waste Management Guidelines for Architects and Property Developers: https://www.newham.gov.uk/downloads/file/632/wastemanagementguidelinesarchitectspropertydevelopers
	Will there be safe and convenient access for waste recycling?	Explain how safe and convenient access for waste recycling will be provided. Cross reference layout plans.	
	Voluntary standards Will non-domestic development be BREEAM certified?	Provide details of the BREEAM rating. Cross reference BREEAM pre-assessment, where applicable.	BREEAM: https://bregroup.com/products/breeam/

2. Will the development receive a sustainability accreditation and/or follow recognised sustainability principles?	Provide details of the sustainability accreditation and/or recognised sustainability principles, for example One Planet Living and Building with Nature.	Building with Nature: https://www.buildingwithnature.org.uk/about One Planet Living: https://www.bioregional.com/one-planet-living
F Only for develop	ment affecting heritage assets or tradition	al buildings
I. Have the heritage value of the building(s) and impact on any heritage asset been appropriately assessed?	Summarise how the heritage value of the building(s) has been assessed and heritage assets are affected. Cross reference the Heritage Statement.	West Oxfordshire Design Guide 16 Greener Traditional Buildings: https://www.westoxon.gov.uk/media/thplpsay/16-design-guide- greener-traditional-buildings.pdf Historic England Statements of Heritage Significance: https://historicengland.org.uk/images-books/publications/statements- heritage-significance-advice-note-12/heag279-statements-heritage-
2. Is a whole building approach being taken?	Provide details of the whole building approach.	significance/ Historic England Retrofit and Energy Efficiency in Historic Buildings:
3. Will responsible retrofit measures be adhered to?	Explain how the development will adhere to responsible retrofit measures.	https://historicengland.org.uk/advice/technical-advice/energy-efficiency-and-historic-buildings/ Building Regulations, Approved Documents and Historic Buildings: https://historicengland.org.uk/advice/technical-advice/building-regulations/
		Historic England Planning responsible retrofit of traditional buildings: https://historicengland.org.uk/images-books/publications/planning- responsible-retrofit-of-traditional-buildings/ STBA Responsible Retrofit Guidance Wheel: https://stbauk.org/guidance-wheel/

BSI PAS 2035/2030 - Retrofitting dwellings for improved energy efficiency https://www.bsigroup.com/en-GB/blog/built-environment-blog/how-our-new-energy-retrofit-pdf-will-help-improve-energy-efficiency/
BS 7913:2013: Guide to the conservation of historic buildings https://knowledge.bsigroup.com/products/guide-to-the-conservation-of-historic-buildings/standard
BREEAM Technical Manual for Refurbishment of Domestic Buildings: https://www.breeam.com/domrefurb2014manual/