

CHAPTER

8.0

SUSTAINABILITY
STATEMENT +
STRUCTURES.

THE FOLLOWING CHAPTER CONTAINS
STATEMENTS FROM THE SUSTAINABILITY
CONSULTANT + STRUCTURAL ENGINEER.

8.1 | PROJECT SUSTAINABILITY + STRUCTURE

SUSTAINABILITY STATEMENT + STRUCTURAL STRATEGY

SUSTAINABILITY STATEMENT

The following statement has been prepared by Hoare Lea:

The project is aiming to achieve good practice sustainability standards. To achieve this, the scheme will follow the BREEAM environmental assessment methodology, which covers a wide range of areas including water usage, energy efficiency, materials, ecology and health and wellbeing.

A number of BREEAM assessments are proposed to be carried out for the different areas of the Proposed Development. The project is targeting BREEAM excellent for most of the areas, with the exception of the 'shell only' retail units which will be targeting a Very Good rating. This is due to the constraints of the BREEAM methodology for 'shell only' assessments which limits the opportunity to target an Excellent rating for these areas.

In terms of energy strategy, the scheme is aiming to achieve a >40% reduction in regulated CO2 emissions compared to a Part L 2013 baseline through a combination of passive design and energy efficiency measures, and low or zero carbon technologies in line with the Council's new Local Plan.

In particular, the proposed energy strategy aims to reduce energy consumption of the development through the use of high-performance building fabric, extensive solar shading, high efficiency building services and appropriate controls. Air source heat pumps are proposed to provide space

heating and cooling in the majority of areas, as well as domestic hot water in the R&D labs and the student accommodation. Photovoltaic (PV) panels are also proposed to be installed in the suitable available roof areas to offset part of the development's electricity demand through onsite renewable energy generation.

The electricity grid has experienced a dramatic reduction in carbon intensity in recent years, and this reduction is expected to accentuate even further in the coming years. In line with this, the proposed electric solution is expected to provide further carbon savings compared to the baseline in the future as the electricity grid further decarbonises.

Further information is included within the Energy Statement.

Refer to following documents:

- Energy statement: REP-2323753-5A-RG-20201126-Energy Statement
- Wind Microclimate Desktop Assessment: 2323753 EC-Clarendon Centre Wind Desktop Study
- Acoustic report: REP-1012557-05-BD-20201002-Acoustic report for planning
- Air quality assessment: ???

STRUCTURAL STRATEGY

The complex nature of the site at The Clarendon Centre has required careful consideration of the structural strategy for the development.

The proposals outlined in this design and access statement are intended to be read in conjunction with the structural strategy for the project.

Further details of strategy have been captured in the 'Structural Strategy' report which accompanies this planning application. This report has been produced by Walsh.

Refer to following document:
5140-WAL-ZZ-SW-RP-S-7004