

SUSTAINABILITY AT CB1

Building the future

The buildings at CB1 are naturally low energy and utilise the latest thinking in passive design, such as super insulation and external shading devices. High performance plant and equipment, alongside carefully integrated low and zero carbon technologies, create extremely high performance buildings, minimising impact on the environment.

To minimise the risk of flash flooding, sustainable urban drainage techniques are incorporated into the development. This limits the flow of rainwater from the site by using green roofs and attenuation tanks to recreate and achieve green field characteristics.

Great care has been placed on the illumination of both the buildings and the roadways to ensure light pollution is minimised in accordance with ILE guidelines.

Materials have been selected to minimise their environmental impact and reduce the embodied energy of the building. Where possible all materials used in the construction have been responsibly sourced.

The development will improve the air quality by only specifying ultra low NOx boilers and reducing dependence on car use by the excellent transport links.

The biodiversity of the development will be enhanced through the creation of green and brown roofs as well as other green areas. This will result in an increase of biodiversity by upwards of five species per hectare.

The buildings sustainability credentials have been certified using BREEAM the world's leading environmental assessment methodology developed by the BRE. The building types and minimum standards being assessed are:

- Offices designed to achieve BREEAM excellent
- Student accommodation to achieve BREEAM excellent
- Residential accommodation to achieve CFSS level 4
- Hotel to achieve BREEAM excellent

Getting around

Transport systems have been improved to reduce the impact on the environment of car use.

Existing cycle ways have been improved, a new pedestrian and cycle path will be added to Carter Bridge and a multi-level cycle park accommodating circa 3,000 bikes has been built.

A new transport interchange will include bays for buses and taxis and will be the hub for the new Cambridgeshire Guided Bus, ensuring efficient and environmentally sound links to other parts of the city, including Cambridge's Park and Ride facilities.