Lincoln Medical School

Working in partnership with the University of Lincoln we are delivering the first Zero Carbon building on their campus

The project

The five-storey building will comprise lecture theatres, laboratories, clinical and pro-section anatomy suites equipped with leading-edge diagnostic tools, and a dedicated science library. Core features include a clinical skills suite with mock consultation rooms, simulating hospital wards or a GP surgery, with the latest technologies to provide high quality teaching.

Project objectives

Until now, Lincolnshire was the largest English county without a medical school of its own.

More than £21 million is being invested to create the Lincoln Medical School building at the University of Lincoln, providing a dedicated new facility to train the doctors of the future and address historic skills gaps in the regional NHS workforce.

The Lincoln Medical School Building will be home to the newest space in the University of Lincoln's Library Service.

The Bio-Medical and Health Sciences Library will be a purpose-designed space, located on the 1st floor of the Medical School Building. The Library will bring together the University's collections covering Medicine, Life Sciences, Pharmacy, Chemistry, Nursing, and Allied Health and Social Care. In addition to these collections, the Library will provide a range of flexible study spaces.

As part of the collaborative approach to teaching medicine offered by Lincoln Medical School, medical students are able to access the combined information resources (e-books, books, journals, and databases) provided by both the University of Lincoln and the University of Nottingham.

Zero carbon

Designed to achieve Zero Carbon in Use, BIM has been crucial in developing the MEP strategy for the project.

During the second stage of design development, our in house BAM Services Engineering team worked to provide the University with a range of options to achieve Zero Carbon.

We analysed Carbon Dioxide Emissions vs Energy Consumption for a range of heating technologies including;

- Biomass
- 40% CHP and Boilers
- 50% Electric Heat Pump Technology - 50% Gas Boilers
- 100% Electric Heat Pump Technology

The solution chosen was to utilise Air Source Heat Pumps and a Hybrid VRF ventilation system.

A Living Wall, Solar PV Walls and rooftop PV panels, together with Green Roof Space all contribute to the building's environmental objectives.

The building is due to complete in Spring 2021.

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