

The role of technology in creating a sustainable smart campus

The UK government has set education institutions a goal of being the world leaders in sustainability and climate change by 2030.

They aspire for this to be achieved through the following strategy:



Excellence in education skills:

preparing all young people for a world impacted by climate change.



Net Zero:

reducing direct and indirect emissions from education and care buildings.



Resilience to climate change:

adapting buildings and systems to prepare for the effects of climate change.



A better environment for future generations:

enhancing biodiversity, improving air quality, and increasing access to, and connection with, nature.



The current state of sustainability in education

In 2022, the University of Leeds revealed that 537 UK institutions emitted more than **18 million tonnes of carbon dioxide equivalent into the atmosphere in 2020/21** - representing around 2.3% of the UK's overall carbon footprint.



18 million tonnes is equivalent to...



3,518,467 gasoline-powered vehicles driven for one year



2,056,890 homes' energy use for one year



41 natural gas-fired power plants in one year

Also, **80% of the tertiary education sector's emissions came from these three areas:**

- ▶ The built environment including student accommodation
- ▶ Staff and student travel
- ▶ Delivery of goods and services



How is technology helping to drive change

Through the implementation of smart campus technology, **UK universities could save £2.2 billion on energy bills by 2035**.

By combining key elements of a smart campus, such as IoT devices, data analytics, and cloud software, educational institutions are able to proactively work towards their sustainability goals, and over time, reduce their energy consumption to reach net zero.



Cloud computing alone will enable you to be:

Up to **98%** more carbon efficient

Up to **93%** more energy efficient



Phoenix and Microsoft's solution

Built in Microsoft Teams as a Power App, our **award-winning Sustainability App** enables your institution to easily collate and track its carbon emissions in one tool.

Our sustainability App allows organisations to easily:



Scan the QR code now

Record



bring together siloed data sources about carbon sources about electricity, gas, water, waste, and vehicle emissions, highlighting opportunities to convert usage to tCO₂e.

Report



real-time carbon emissions and targets. Further analyse and gain a deeper understanding of data through reports for your organisation as a whole, or even for individuals.

Reduce



track reduction activities outlined in the Low Carbon Action Plan against key dates overload with carbon emission data.

Start your sustainability journey today

Speak with us about your sustainability and climate change challenges and what you require to meet the government's 2030 goal.

Arrange a free one-to-one consultation with one of our sustainability specialists now.

Get started now for free

▶ <https://calendly.com/phoenix-sustainability/sustainability-for-education>

Contact us

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