

# Sustainable Hot Water & Heating For Higher Education



Getting you on the right path to  
**NET ZERO**  
by **2035**

Establishing a culture of sustainability across higher education estates and embedding climate action priorities into strategic plans are now core objectives within universities and colleges across the UK.

Understanding how a property's assets contribute to that overall performance, and how individual assets perform against technical criteria, especially in terms of delivering sustainability across the estate has never been so important. But there are also issues of how space is being utilised and general condition of how the estate is maintained that play into the wider demands of performance management which are demanded of academy trusts.



In the 2018/19 academic year, UK universities emitted approximately **1.7 million metric tonnes of CO<sub>2</sub>** equivalent emissions, making up **0.5%** of the UK's total emissions.

In response, higher education providers have made a collective effort to improve sustainability across the sector, with universities declaring climate emergencies and making commitments to create sustainable campuses and achieve net-zero emissions. **In October 2021, 140 members of the COP26 Universities Network** backed a new set of commitments on climate action to support targets for reducing carbon emissions by **78% by 2035**.



Solar Thermal panels supplied for Bolton College.

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Delivering green estate management policies to support net zero targets with the aim of transitioning to new ways of operating buildings or developing new, more environmentally friendly buildings or full estates are the foundation for reducing carbon footprints.

Through new impetus to transition to better management of estate hot water & heating, stakeholders across the entire higher education estate and the student body can gain new, practical insights on introducing sustainability.

Experience through implementation of existing and developing low carbon technologies is a formative tool for extending net zero objectives across the estate. It can be used to provide deeper engagement with staff and students, helping to identify priorities for future sustainability policies within education and beyond into the commercial sector.

Solar Thermal collectors for Manchester University.



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**10-30% SAVINGS**

Adveco can help achieve emission reduction targets with expert technical guidance on choosing and developing bespoke sustainable applications for estate buildings.

Smart, embedded system monitoring provides accurate real world data regarding current estate demands and energy consumption to enhance application design and provide ongoing operational intelligence to improve energy efficiencies.



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Despite commitments, only **46%** of higher education institutions are currently on course to meet their emissions reduction targets.  
(Source: People and Planet, December 2021).



Adveco Ltd. was established in 2015 as the sister company to Adveco (AWP) Ltd., who trade as A.O. Smith Water Heaters and has been the UK supplier of A.O. Smith products and services through a partnership lasting 50 years.

Today, Adveco Ltd. is the trusted specialist provider of bespoke hot water, heating and power systems to the building services industry. Committed to partnering with its commercial and government customers, Adveco helps create comfortable, efficient, functional, safe and sustainable buildings through invaluable support in the design, supply, commissioning and service of business-critical hot water, heating and power.

Our industry-leading Technical & Design teams support contractors with a single, versatile, specialist sales resource that ensures delivery of the most cost-effective system. Specifiers and designers gain informed support and partnership for the design and delivery of industry defining systems optimised to be highly efficient. Adveco also offers a full range of service and preventative maintenance packages designed to fit the specific needs of the client. Facility Managers gain reliable, business-critical hot water, heating and power systems that exhibit maximum system performance for low running costs, ease of management and longevity to realise low total cost of ownership.

## WHY ADVECO?

### 50 years of expertise

- Adveco Ltd. is the sister company to Adveco (AWP) Ltd, who trade as A.O. Smith Water Heaters in the UK

### Highest quality products and services

- We prioritise our clients' needs to deliver bespoke, practical systems

### Full aftersales support

- Training
- Maintenance and service packages, commissioning, spares, warranty, servicing and technical support for your application.

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# Adveco supports:

- Sustainability as a core purpose of higher education
- The improvement, and better management of living and study spaces
- Working together to make sustainability 'front and centre' in the sector through site assessment programmes, bespoke application design and staff training
- Driving student engagement in sustainability through exemplar project delivery.

Addressing efficiency of hot water and heating systems not only helps higher education meet sustainability goals in a practical and cost effective manner, it also delivers improved conditions for staff and the student body, providing access to better living and study spaces.

New system approaches, including packaged plant also provides for better use of the spaces that already exist on campus, helping deliver learning experiences without the need to undertake expensive and disruptive building projects. This is especially valid as larger enrolments are placing new demands on colleges and universities to extend campuses resulting in multiple construction projects at once. It is not uncommon to see different buildings going up at the same time on a larger campus throughout the UK.

New buildings for almost every field of study are being constructed and with that comes the need to create more living space for housing of undergraduates.

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How **environmental sustainability** can be achieved



**IMPROVE EFFICIENCY**

Improve efficiency for a calculable reduction in energy consumption.



**REDUCE EMISSIONS**

Reduce or completely remove emissions from estate building.



**ADAPT EXISTING SYSTEMS**

Adapt or replace existing hot water and heating with low carbon hybrid systems that economically bridge to future sustainable technologies.





# Low Carbon & Renewables from Advenco



## Heat Pumps For New Higher Education Buildings

For new buildings across the campus that are serviced by electricity only, the deployment of air source heat pumps (ASHP) as a method of pre-heating water represent a clear opportunity to introduce low carbon technology to meet sustainability goals.

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## Solar Thermal For Refurbishing University Accommodations

A proven and extremely reliable technology, solar thermal offers a clear path to reducing CO<sub>2</sub> emissions.

Correctly designed and sized to the application, such as student accommodation, solar thermal systems can generate a considerable proportion of the hot water requirements for buildings that are already on-gas with relatively short payback periods on the initial capital expenditure, while leveraging lower-cost gas to meet peak demands.



- Bespoke Application Design
- Product Supply
- Lifelong Support





Find out how we can help you improve your university or academy environment ...

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We can help you achieve  
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