

London & South East Region

27/05/2026 1PM – 2PM

Host: Vittorio Frosini EngTech MSOE



Agenda:

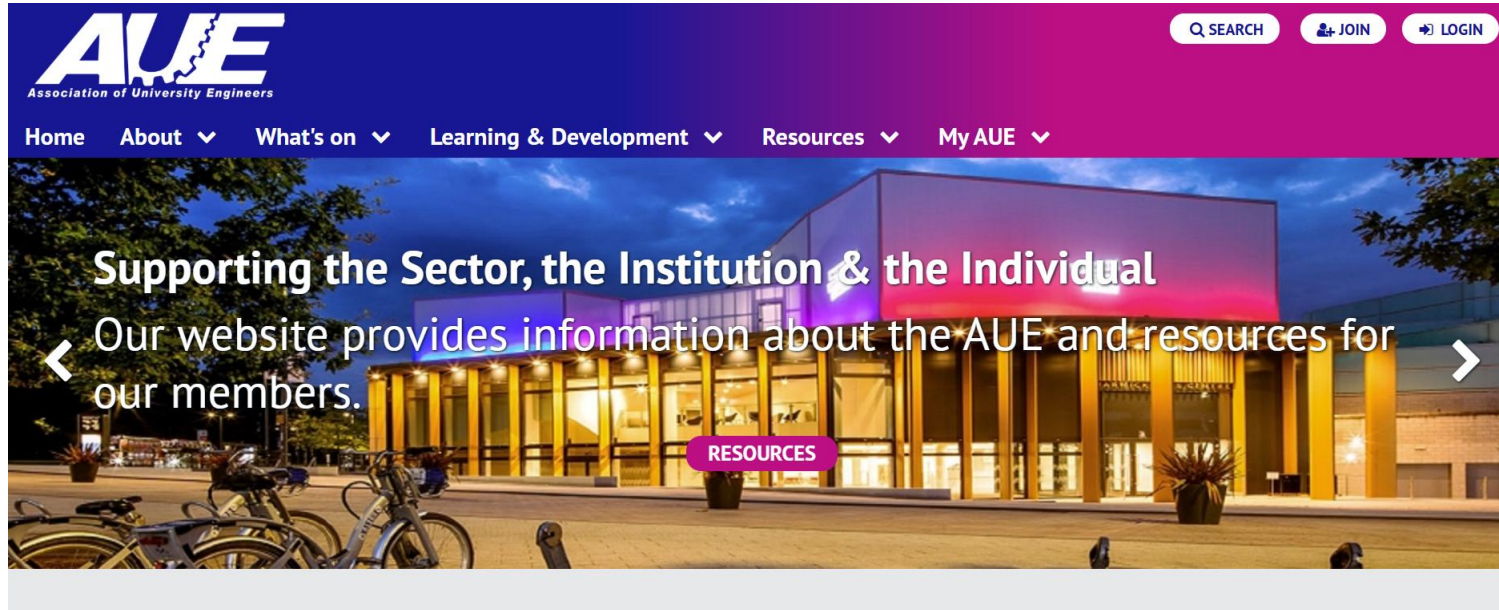
- Introductions
- AUE: Membership
- RVC Decarbonisation Project
- Future events

Vittorio Frosini, Maintenance manager RVC, Hawkshead Campus

Chair London & South east region

- Vice chair
- Ask colleagues to join
- Website useful information

AUE Website www.aue.ac.uk



The screenshot shows the AUE website homepage. At the top left is the AUE logo with the text "Association of University Engineers". To the right are three buttons: "Q SEARCH", "JOIN" (with a plus icon), and "LOGIN" (with a right arrow icon). Below these is a navigation menu with items: "Home", "About" (with a dropdown arrow), "What's on" (with a dropdown arrow), "Learning & Development" (with a dropdown arrow), "Resources" (with a dropdown arrow), and "My AUE" (with a dropdown arrow). The main content area features a large background image of a modern building at night with a purple and blue sky. Overlaid on this image is the text: "Supporting the Sector, the Institution & the Individual" in a large white font, followed by "Our website provides information about the AUE and resources for our members." in a smaller white font. There are left and right arrow icons on either side of this text. At the bottom center of the image is a purple button with the word "RESOURCES" in white.



2026 AUE Conference - Leeds University 9th - 10th September - 'Engineering The Future Of University Estates'

What's On

News

Diary Of Events

Search

Vacancies

9th - 10th September 2026

Location: Leeds University

Save to calendar:  



HARLAND ROBERTS Engineer Improver of the Year Award

Extended to Friday 12th June

AUE What do we do?

- Promote, foster and develop the knowledge and skills of Estates professionals in the Higher Education sector.
- Assist, in collaboration with other Higher Education Associations, in advancing of Estates and Buildings professionalism within Higher Education.
- Improve the management of educational estates to enhance the learning and working environment or all users
- Provide a way for higher education estates professionals to share their views, contributions, and expertise with higher education associations and other professional bodies
- Facilitate information exchange.
- Through our activities, provide accredited Continuing Professional Development (CPD).

RVC Heat Decarbonisation Project

11 May 2023

Why Decarbonise Heat?

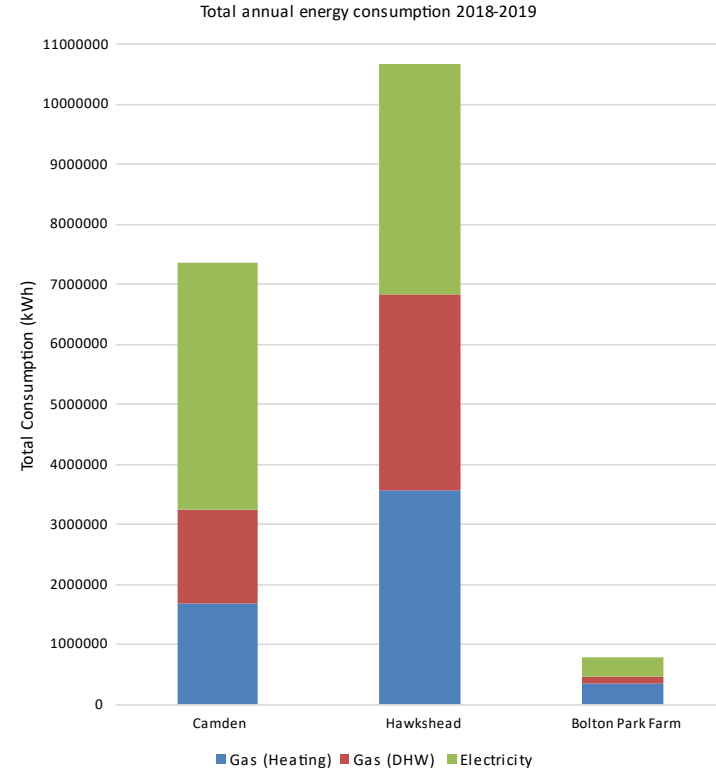
- To comply with the Paris Agreement which is a legally binding international treaty on climate change, adopted by 196 parties and entered into force on 4 November 2016.
- To comply with UK Laws on Net Zero Target by 2050.
- To achieve the RVC's aspiration on **Net Zero Target by 2040.**
- To respond to the students' demand and promote sustainable practice across the wider veterinary and biological science communities.
- Because the heating by natural gas at RVC, accounts for over 50% of total energy consumption.
- Because the National grid is decarbonising the electricity generation process by moving to renewables resources therefore electrification of the space heating and domestic hot water generation will automatically result in lower carbon emissions.

Energy Consumption Summary

Hawkshead largest overall consumer of energy by ~45% over Camden.

Electricity consumption between Hawkshead and Camden is comparable.

Boltons Park Farm consumes only ~5% of all RVC energy.



Proposed Upgrades

- › Triple glaze windows
- › Roof insulation
- › Wall insulation
- › Improving airtightness
- › Demolish and rebuild
- › Electrification of the heat generation by using heat pumps



About us ▾

Funding schemes

Phase 3c Public Sector Decarbonisation Scheme

● Closed for applications

2023 Boiler Stock

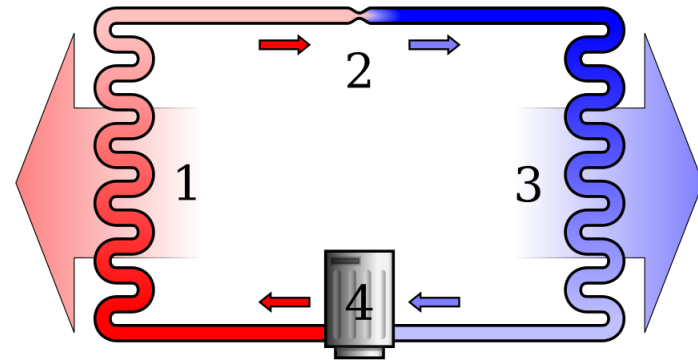
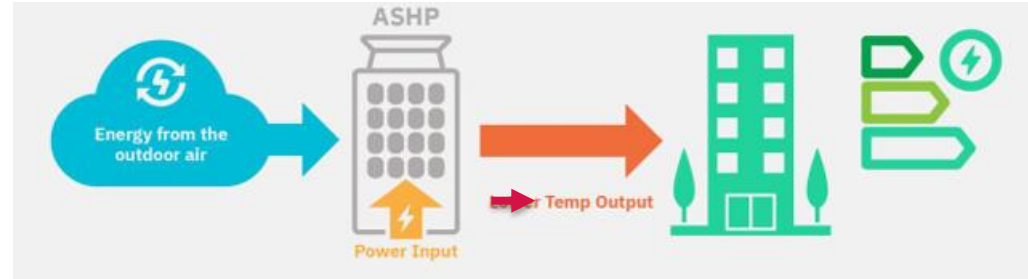
Building Ref.	Building Name	Elec. Substation	GIFA	Building Type	Current Boilers	Total capacity kW	Installation date	Replacement date
H74	Maintenance	D	217	2	1 x Ideal Concord CX170	62	1985	overdue
H20	Clinical Block	A	2508	2	2 x Hoval Cosmo	890	1999	overdue
H52 D	Equine Diagnostics	B	604	3	2 x Hamworthy Purewell	230	2003	due
H82	Hawkshead Lane	D	120	2	various	25	2009	2030-2035
H51	TARC		1728	3	2 x Viessmann Vitodens 200	400	2011	2030-2035
H53	Live	B	610	3	1 x Potterton Paramount 3	100	2012	2030-2035
H75 A & B	Accomm. Block A & B	A	1114	3	2 x Viessmann vitodens 200	80	2012	2030-2035
H75 C&D	Accomm. Block C & D	A	1114	3	2 x Viessmann vitodens 200	80	2012	2030-2035
H75 E&F	Accomm. Block E & F	A	1114	3	2 x Viessmann vitodens 200	80	2012	2030-2035
H52	LACC	B	709	3	Unknown	140	2013	2035-2040
H52 A	LACC Admin	B	708	3	Unknown	12	2013	2035-2040
H23	CIC	A	441	2	2 x Ideal Concord CX 275	193	2013	2035-2040
H77 LB	College Close Laundry			2	1 x Vaillant Ecotec Plus	12	2014	2035-2040
H56	Structure & Motion	A	410	2	2 x Vaillant ecoTEC Plus 624	50	2015	2035-2040
H64	Flight Barn	A	570	3	2 x Ideal Evomax 30 & Powrmatic	110	2015	2035-2040
H61	Animal Welfare	A	509	3	2 x Ideal Evomax 80	160	2016	2035-2040
H94	SAWC	D	1841	3	2 x Hamworthy Modumax Mk3	240	2016	2035-2040
H50	QMHA	C	5986	2	6 x Hamworthy Modumax 3	882	2017	2035-2040
H60	BSU	A	559	3	2 x Hamworthy Modumax Mk3	294	2017	2035-2040
H30	Hawkshead House	D	602	2	1 x Hamworthy Modumax 3	147	2018	2040-2045
H75	Accomm. Block I & Conference Facility	A	2057	3	2 x Ideal Evomax 150	300	2018	2040-2045
H57	Mill Reef	A	1584	3	4 x Hamworthy Modumax Mk3	588	2019	2040-2045

Boilers over 10 years old

Building Ref.	Building Name	Elec. Substation	GIFA	Building Type	Current Boilers	Total capacity kW	Installation date	Replacement date
C77 LB	College Grove Laundry			2	1 x Ideal Evomod 1000	12	2010	2030-2035
C60	BSU	2	1275	2	8 x Remeha Quinta Pro 90	720	2016	2035-2040
C50 Flats	Beaumont Flats	2	307	1	2 x Remeha Quinta 30	60	2017	2035-2040
C23	LBIC	2	2998	1	4 x Hamworthy Wessex Purewell	280	2018	2040-2045
C21 & C50 Hospital	Amoroso & BSAH	2	3520	1	2 x Hamworthy Wessex Modumax Mk3	394	2019	2040-2045
C20	Hobday	1	12889	1	1 x Ideal Evomod 1000	1000	2021	2040-2045

Building Ref.	Building Name	Elec. Substation	GIFA	Building Type	Current Boilers	Total capacity kW	Installation date	Replacement date
H85	40 Hawkshead House	Farm	90	2	1 x Ideal Mexico Super CF50	18	2009	2030-2035
H85	42 Hawkshead House	Farm	90	2	1 x Ideal Classic	18	2009	2030-2035
P21	Farmhouse Office	Farm	504	2	2 x Ideal Evomax 100	200	2015	2035-2040
P25	Animal Accommodation	Farm	352	1	1 x Worcester Greenstar 30CDI Classic	30	2015	2035-2040
P62H	Animal Pens	Farm	147	1	2 x Ideal Concord CKA 100H	240	2015	2040-2045

Air Source Heat Pumps (ASHP)



Mitsubishi Electric, 2026

Preparation works for power supply redistribution



HV Cable Joint



New HV Transformer

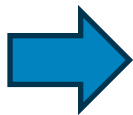


New LV Panel

Boilers replacement with ASHP

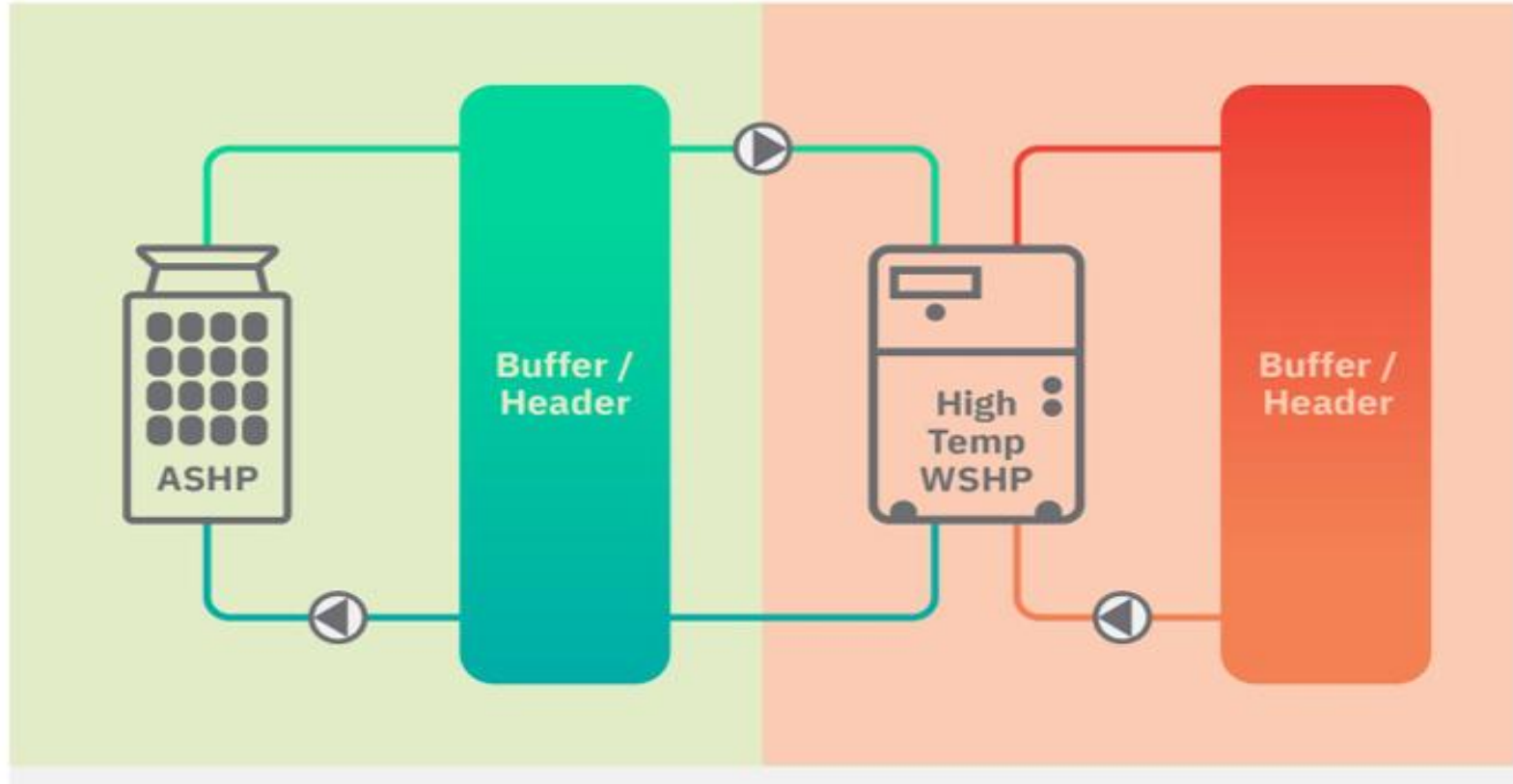


Originally installed in 1999



Considerations

Output temperature



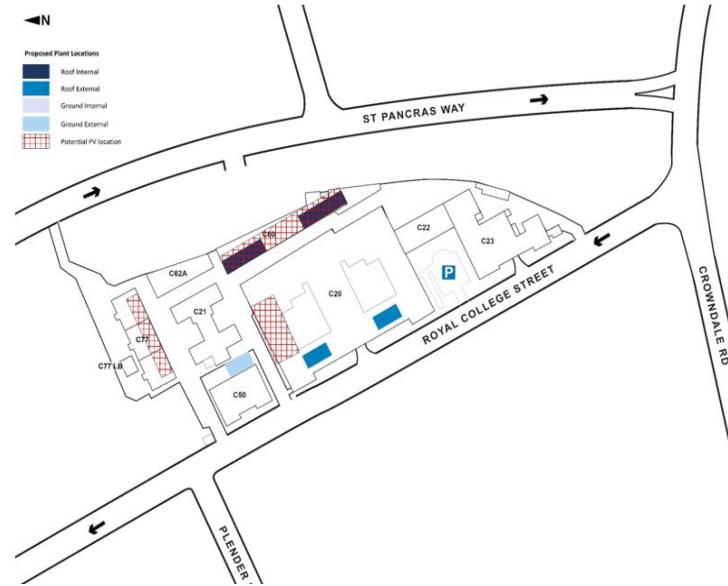
Considerations



Buffer Vessel, Pumps and control panels inside plantrooms

Final Considerations: Solar panels

Potential Plant Locations - Camden



Future events:

- ❑ AUE Conference, Leeds University 9th -10th September
- ❑ CPD Seminar Friday 30th October, RVC Camden Campus
- ❑ Get in touch! Suggestions are welcome.

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