

ADVECO NEWSLETTER

June 2023

Welcome to Adveco's June newsletter,

The gist of most conversations the past few weeks have been how did we get to June already? The year is flying by and bringing us much closer to the critical first dates set for net zero planning and the first major deadline in 2035 does not seem so far away.

This month we have seen clear evidence that renewables are gaining traction, but the UK is also starting to lag behind on delivery of key infrastructure to meet these first stage goals. Early goals were relatively easy to meet, delivered by the closure of coal-fired power stations, now things are far more challenging.

Achieving net zero requires stakeholder engagement across the board. At Adveco we can help with your projects, from site assessment with our Live Metering Service, to system design and supply that improves sustainability of hot water systems. These are actions that can be taken today and why we have once again received an award this month for our ongoing commitments to the building sector.

Don't forget to visit our new training site and sign up for our free CPD seminars to further your own knowledge on sustainable water heating.

We also debut a first look at our new all-electric packaged water heating systems that will take FUSION to the next level with a wealth of improvements and options for a breadth of decarbonisation projects...

Are we on track for Net Zero?



Researchers from Imperial College London have declared a 'milestone event' that seems to place us on track for net zero as one-third of UK electricity came from wind farms in the first quarter of 2023. This is the first recorded time that wind has out-supplied gas.

In the first quarter of 2023, 42% of the UK's electricity came from renewable energy, with 33% coming from fossil fuels, predominantly gas and coal. As well as wind, solar has also seen significant growth in the UK, with the National Grid confirming that April saw a record period of solar energy generation.

However, Some new solar and wind sites are waiting up to 10 to 15 years to be connected because of a lack of capacity in the electricity system. The National Grid acknowledges the problem but says fundamental reform is needed as energy companies are warning that significant delays to connect their green energy projects to the system will threaten their ability to bring more green power online.

And electricity only accounts for 18% of the UK's total power needs. So, are we really on track for net zero electricity generation by 2035? Achieving this requires a considerable uplift in the number of renewable projects – as many as five times more solar and four times as much wind – but these sites can only supply energy once connected to the grid.

Ofgem says it has agreed to allow the National Grid to raise an additional £20bn over the next 40 years from customer bills to pay for the huge upgrades the grid needs, and later this year the government is expected to announce a new action plan for speeding up grid connections.

Commercial organisations factoring in a 100% green grid by 2035 as part of their decarbonisation strategy may need to start reconsidering their plans. If we cannot rely on the grid being on track for net zero in the next 12 years, then organisations need to look at how they can generate energy demand locally without depending wholly on grid supply, or Distribution Network Operators (DNOs) that bring electricity from the national transmission network to businesses.

This brings us back to wind and especially solar. Both are technologies that are proven, well understood, truly renewable and can be installed on the property to meet or at least offset some of the grid demands of a business. Wind power remains a complex, highly expensive option with long lead times due to planning restrictions and complex build and installation so is not for everyone and is only really suitable for properties located in more mixed/rural locations. Solar, both PV and thermal is by far the simpler and more cost-effective option.

Whilst PV can supply electricity for multiple applications, for water heating solar thermal is the preferred option. By far the most efficient of the two solar technologies, solar thermal requires fewer collectors to generate similar energy to a PV set-up, so is more versatile when working with available roof space on a property and is extremely robust when deploying drain back technology. This ensures operation with low maintenance for a faster return on investment.

[LEARN MORE ABOUT NET ZERO](#)

[ALL ABOUT CARBON EMISSIONS](#)

Sustainability Award For Adveco



We are very proud to announce that Adveco has received the inaugural Sustainability Products & Services Award 2023 from Building & Construction Review Magazine.

This Building & Construction Review Sustainability Products & Services Award recognises Adveco's leadership role in supporting the drive towards net zero. The editorial team was impressed by the company's consistent product development, innovative services, and dedicated efforts to raise awareness for greater sustainability in commercial hot water systems.

For more than 50 years Adveco has been leading innovation in the provision of water heating for commercial building projects. At the core of this innovation has always been a drive to achieve greater efficiency for reduced operating costs and safer operation from its range of gas-fired appliances. In recent years, this expertise has set the company apart as it began to lead the charge to modernise systems and introduce lower carbon alternatives that could help counter global warming.

Today that process, which began with solar thermal systems, has expanded to encompass air source heat pumps (ASHP), electric water heaters and boilers, as well as supporting the potential of a hydrogen-based green gas grid with 20% blend-ready ranges of water heaters.

With more than 500 live solar thermal sites operating in the UK, Adveco is the specialist in this proven and truly renewable technology. The company has also broken new ground in delivering hybrid offerings that counter inertia in decarbonisation strategies, enabling organisations to adapt or replace existing systems quickly and cost-effectively.

Adveco continues that process today with innovations in heat pump technology, solar thermal and all-electric packaged systems that will be coming to market over the next twelve months.

Greg Brushett, Adveco's UK sales manager, had this to say, "Adveco prides itself on working in close partnership with commercial and public sector customers in the UK. The breadth of new and especially existing properties that wish, or need, to improve sustainable operations has created an immense challenge for the country. This is why knowledge and choice are two of the most important services we offer," said "For instance, our most recent innovation in data interpretation for properties seeking to move from gas to electric is helping organisations identify the most cost-effective means of making carbon reductions to their operations. These organisations are the true net zero heroes, and we are fortunate to be able to support them on their journey with a wealth of technologies that meet the demand for sustainable water heating."

[READ ADVECO'S AWARD FEATURE IN BUILDING & CONSTRUCTION REVIEW](#)

Book Your Continuous Personal Development (CPD) Seminar

Adveco offers a range of improved and updated continuous professional development (CPD) seminars for consultants, contractors and installers seeking to learn more about the delivery of sustainable hot water for commercial building projects. All seminars are CIBSE accredited and include:

Best Practices For Electric Based Commercial Hot Water Systems



Sizing Domestic Hot Water Systems For Commercial Environments



Solar Thermal Energy In The UK



Best Practices For Electric Based Commercial Hot Water Systems

- Understand the specification of electric water heating
- Direct electric and low carbon methods including solar thermal and, in particular, air source heat pumps
- You will gain an understanding of the challenges and issues surrounding commercial electric water heating and the importance of pairing kW to litres when designing a system

Sizing domestic Hot Water systems for Commercial Environments

- A review of the types of systems and the suitability of appliance technologies for various demand profiles.
- An in-depth analysis of peak periods of demand and sources of demand within buildings.
- Worked examples tailored to applications suitable for the audience.

Solar Thermal Energy In The UK

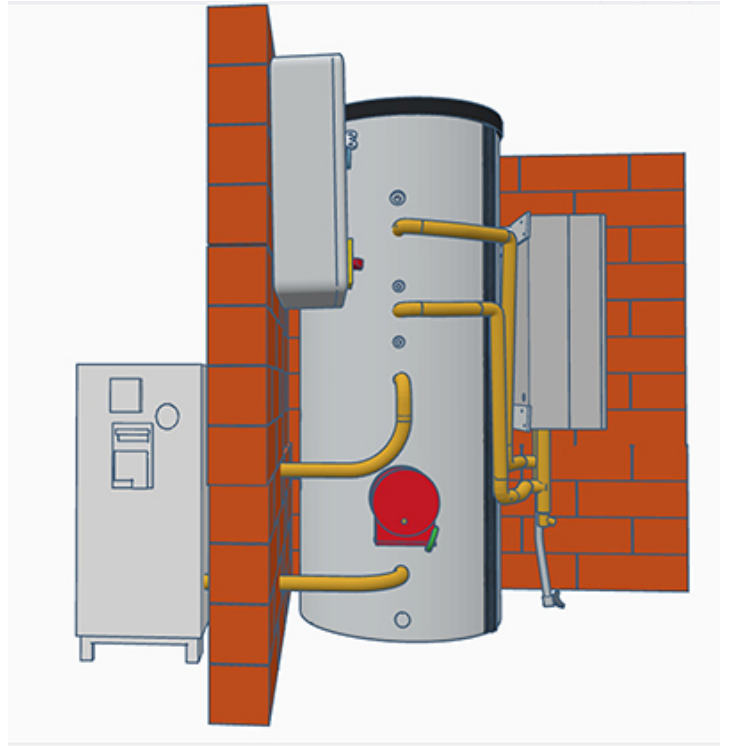
- How to design robust Solar Thermal Systems
- Choosing between solar thermal systems, PV and heat pumps for commercial DHW system
- Solar thermal installation training available via CPD & onsite

Visit our new training portal or contact Vince Ng to book your session.

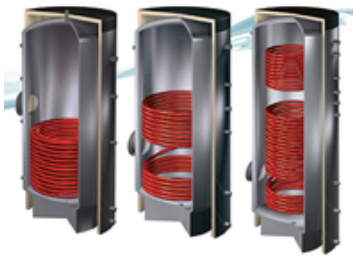
ADVECO CPD SESSIONS

Future FUSION

Finally take an exclusive sneak peak at the brand new FUSION range coming from Adveco this Summer. Select the all-electric package that addresses your water heating project's needs with a compact, highly resilient, low-carbon system designed for ease of installation and maintenance.



Hot Water Cylinders From Adveco



ATSx

The Adveco ATSx hot water tanks offer a range of models from 200 to 1000 litres at 10 bar as standard. This range of stainless steel vessels is suitable for use as hot water buffers, and single, or dual coil calorifiers as required for the application..

[FIND OUT MORE](#)



SSI SST SSB

The Adveco range of stainless steel hot water tanks from 200 to 2500 litres. The stainless steel range is suitable for use as hot water buffers, single coil, or dual coil calorifiers as required for the application.

[FIND OUT MORE](#)



GL Range

GL family of low-cost carbon steel storage tanks offer a selection of off-the-shelf vessels for commercial hot water (DHW) projects requiring direct electric heating, buffer storage, indirect heating or preheat.

[FIND OUT MORE](#)

Adveco 2023 Product Guide

Fully updated for 2023, this useful reference guide provides a full summary of Adveco's current product portfolio. Don't forget these are just the start of our offering, acting as the buildings blocks for your bespoke hot water systems...

2023 PRODUCT GUIDE



Discover Adveco's expanding range of low carbon and renewable products

[Fpi R32 monobloc Air Source Heat Pump](#)

[L70 Air Source Heat Pumps for larger projects](#)

[FUSION pre-sized hybrid hot water systems](#)

[Solar Thermal Drainback Systems](#)

[ARDENT Electric Boilers](#)

[Hot Water Cylinders, Indirect Water Heaters, Calorifiers & Buffers](#)

[Commercial Gas-Fired Water Heaters](#)

[Standalone Heat Recovery from Chillers](#)

[Offsite Constructed Packaged Plant Rooms](#)

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