



**HORIZON**  
**SUSTAINABILITY AT AVK IN THE UK**





## INTRODUCTION FROM OUR CHAIRMAN

In 2015, the Paris Agreement set a clear global ambition: to limit temperature rise to 1.5°C above pre industrial levels. A decade on, that challenge is stark. Average temperatures were reported as 1.47°C above pre industrial levels, having exceeded 1.5°C during 2024, underlining the urgent need for action today.

This edition of Horizon demonstrates how AVK in the UK Group of Companies is responding - translating responsibility into meaningful action across the Group and our businesses and embedding sustainability into everyday decision making. It highlights the essential role our products and services play in delivering resilient infrastructure and enabling a more sustainable future for the communities we serve.

Our commitment is supported by targeted investment, including electric vehicles, solar generation and energy efficiency initiatives, alongside strengthening the expertise, capability and culture needed to drive lasting change.

I hope readers enjoy this edition and see that progress is driven not only by strategy and investment, but by the collective actions of our people. By working collaboratively with our customers, each contribution helps us move closer to a greener, more sustainable future for generations to come.



PAUL HUBBARD  
Chairman



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# AVK IN THE UK

## Global Expertise, Local Commitment

AVK in the UK is part of the global AVK Group, a leader in valves and fittings for water, wastewater, gas, and fire fighting networks. With over 100 companies worldwide, AVK drives innovation through smart valve technologies and digital monitoring.

## Sustainability

Committed to carbon neutrality and Net Zero, AVK publishes an annual Sustainability Report demonstrating its environmental responsibility.

## UK Presence

Four brands – AVK UK, Atplas, Fusion, Glenfield Invicta – operate across manufacturing sites in Corby, Chesterfield, Bridgend, Kilmarnock, and Hyde, supported by nationwide sales and distribution teams.

## Innovation

Design and testing take place at UK sites as well as AVK's technology centre in Denmark, ensuring products meet global standards (BS, EN, ISO, DIN, AWWA, JWWA). AVK GUMMI produces all rubber components for durability and quality.

## Customer Focus

AVK provides technical support, training, and certified on-site service, combining global innovation with local expertise to deliver sustainable, high-performance solutions for critical infrastructure.

# WHO WE ARE



# IN SUMMARY

## KEY ACHIEVEMENTS

- ▶ Reduction in absolute Scope 1 and 2 carbon
- ▶ Reduction in Scope 1 and 2 carbon on an intensity basis (by turnover)
- ▶ Accreditation to ISO 14064 standard for GHG quantification
- ▶ Completion of range of Environmental Product Declarations (EPDs)
- ▶ Implementation of ISO 50001 and associated energy savings

## FUTURE PLANS

- ▶ Continued focus on reduction of Carbon to achieve targets with planned approach to 2030
- ▶ Completion of Scope 3 carbon calculations
- ▶ Reduction of Scope 3 carbon emissions
- ▶ Additional new manufacturing site to gain accreditation to ISO 14064
- ▶ Production of further EPDs for all manufactured product range to provide data for all products
- ▶ Expansion of ISO 50001 to cover all companies and associated energy reduction

## TERMINOLOGY

<b>Carbon Neutral</b>	In the context of AVK – we define this term as a balance of greenhouse gas emissions across Scopes 1 or 2 so that overall net emission for these Scopes is zero
<b>Net Zero</b>	A balance of greenhouse gas emissions across Scopes 1, 2 or 3 so that overall net emissions to the atmosphere are zero
<b>Scope 1</b>	Direct emissions of greenhouse gases from sources owned or controlled by a company
<b>Scope 2</b>	Indirect emissions of greenhouse gases from purchased electricity, steam, heat or cooling used by the company
<b>Scope 3</b>	Indirect emissions of greenhouse gases that occur in a company's value chain, both upstream and downstream and not included in Scope 1 or 2
<b>Double Materiality Assessment</b>	An assessment that evaluates the financial impacts of sustainability on a business and the company's impact on society and the environment
<b>EPD</b>	Environmental Product Declaration – a third party verified assessment of the environmental impacts of a product through the stages of its life cycle
<b>ESG</b>	A term generally used for reporting requirements covering environmental, social and governance issues of an organisation
<b>Location based</b>	Calculation method for emissions from purchased electricity using average emission factors for the location where the energy is consumed reflecting the local grid mix
<b>Market based</b>	Calculation method from purchased electricity using supplier specific emission factors and contractual instruments such as renewable energy certificates

# ENVIRONMENTAL SOCIAL GOVERNANCE ACROSS AVK IN THE UK COMPANIES

## Sustainability within the AVK Group

As sustainability and ESG continue to evolve across our industry, the AVK Group is strengthening its approach through a recent double materiality assessment. This process reviewed both the impact of our operations on sustainability issues and how sustainability related risks and opportunities affect our business.

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Climate change was identified as a key priority, reinforcing AVK's commitment to become carbon neutral for Scope 1 and 2 emissions by 2030, and achieve Net Zero across all emissions, including Scope 3, by 2040.

Business conduct was also highlighted as a significant focus area, leading to further enhancements to our employee and supplier codes of conduct.

The AVK Group's 2024/25 Sustainability Report includes data from 110 manufacturing and sales companies worldwide, including all UK businesses, covering the Danish financial year from October to September.

Highlights for the AVK Group include:

- Reduction in Scope 1 and 2 carbon emissions by 18.9%
- Increase in supply of renewable electricity to 52.17%
- Increase in Environmental Product Declarations to 26
- Introduction of revised and strengthened code of conduct for employees and suppliers
- 113 supplier audits

The full AVK Group sustainability report can be found on our websites.



# HOW HAVE UK COMPANIES SUPPORTED AVK GROUP PROGRESS

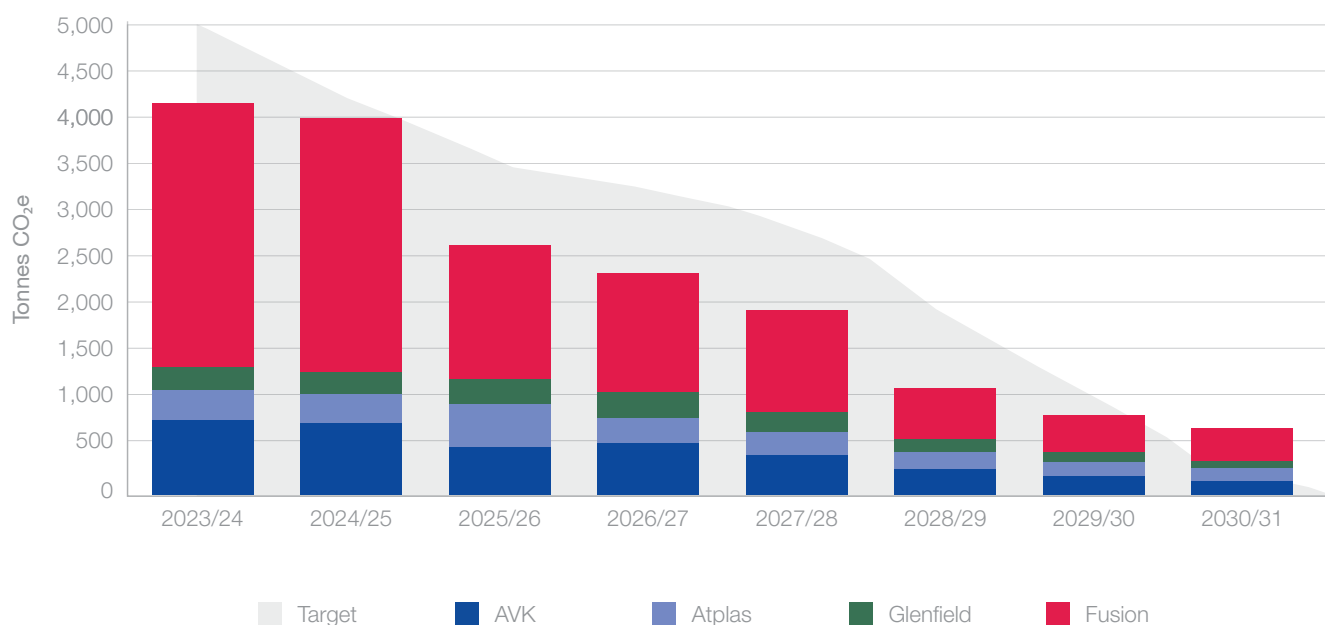
Work has continued at pace across all AVK companies in the UK to support the focus on Environmental, Social and Governance issues and in particular our continued focus on carbon measurement and reduction to support our customers own carbon reduction ambitions, with 2030 now no longer seeming a distant point in the future.

## Carbon Reduction Performance

In the last edition of Horizon we reported that all UK activities along with Fusion manufacturing sites in China and Egypt undertake carbon data reporting and validation under the Achilles Carbon Reduce Scheme, providing good quality data in line with the ISO 14064 for quantification and reporting of greenhouse gas emissions and removals.

All sites previously holding the accreditation have again been through the process of data validation through the Carbon Reduce Scheme.

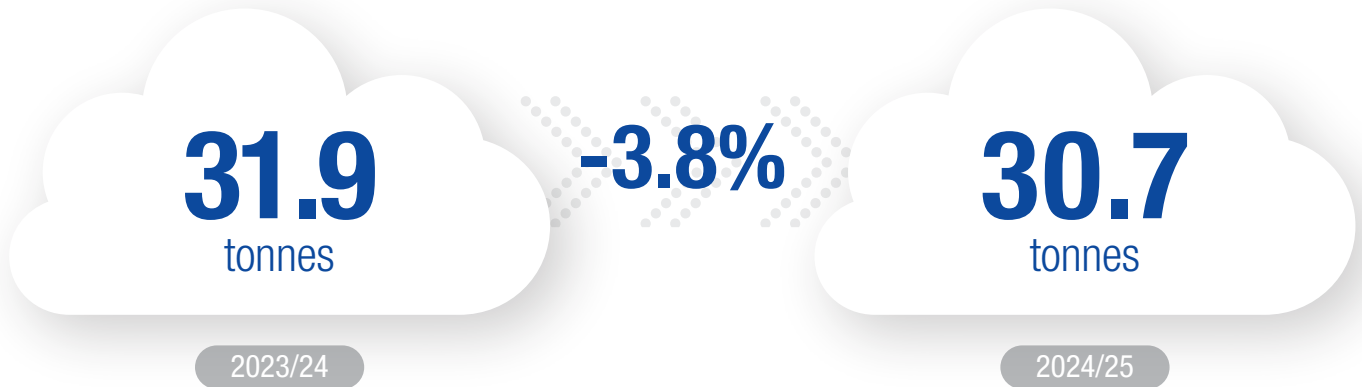
Absolute Scope 1 and 2 Carbon Data



NB. In 2024 Fusion developed additional production facility in China, Fusamatic (Anhui). This site will join all other manufacturing sites in implementing the Achilles Carbon Reduce Scheme to ensure we can provide third party verified data in tracking our carbon reduction ambitions. As the site was previously part of the AVK group; data has been being collected and supplied into our Group Sustainability Report. The data supplied to our group reporting has been used in collating AVK UK companies carbon dataset and in helping to develop our future strategy.

The dataset shows carbon arisings under a market based reporting approach and shows a modest decrease in absolute carbon over the previous financial year. On an intensity basis against a growing turnover this represents a Scope 1 and 2 arising of 31.9 tonnes of carbon per million of turnover for 2023/24 and reducing to 30.7 tonnes per million in 2024/25.

## CARBON REDUCTION PER £MILLION TURNOVER



Our planned approach and initiatives to deliver the projections based on our data is set out further below.

### Energy Consumption and Renewable Supply

Electricity consumption across our UK based sites is all purchased through 100% renewable energy supply tariffs and within the 2025/2026 year we have also commenced purchase of renewable electricity contracts within Fusion's China based manufacturing locations and included within our projections towards carbon neutrality by 2030. In 2023 solar power generation was also installed within our Staveley site in the UK and at our Fusamatic Zhongshan site in China. 2024-25 saw a bumper year for sunlight leading to 222117kWh of solar power generation at Staveley and 320,000 kWh at Fusamatic Zhongshan. 2026 will see further investment at Atplas with the installation of solar panels.

Gas consumption is a significant source of energy use across AVK in the UK manufacturing operations. In 2024/25, we began a supply contract including gas supported by the Green Gas Certification Scheme, which helps increase the use of gas generated from renewable sources such as anaerobic digestion.

Under a market based reporting approach, these initiatives contribute to reductions in Scope 1 and 2 emissions.

This in turn lowers the embedded carbon reported in our Environmental Product Declarations (EPDs) and helps reduce the Scope 3 emissions of our customers.

Alongside the increased use of renewable energy across AVK in the UK, there is also a renewed focus on reducing overall energy consumption. ISO 50001 plays a central role in this approach, providing a structured framework for improving energy efficiency and driving continuous reduction in energy use.



## ENERGY MANAGEMENT & EFFICIENCY ACROSS AVK IN THE UK

Atplas has led the AVK in the UK companies in achieving certification to the Energy Management Standard ISO 50001. Further details are provided on page 7. This certification supports a structured and consistent approach to managing and reducing energy use.

As injection moulding is the primary manufacturing process for both Atplas and Fusion, electricity consumption is a significant part of their energy profile. To support efficiency improvements, both companies have installed sub-metering on all injection moulding machines, enabling better identification of energy-saving opportunities.

Transport and logistics, particularly fuel use in travel and haulage, are also key contributors to our carbon emissions. The implementation of ISO 50001 provides a framework that supports action in these areas and reinforces our wider carbon reduction ambitions.

## WIDER ENVIRONMENTAL IMPACTS

As well as carbon and energy we remain focussed on areas in line with our lean manufacturing principles to reduce waste and water use. Packaging remains a key issue and recent increases in recycled content in packaging materials can be found within our circular economy piece on page 13-16.

## SCOPE 3

A spend based Scope 3 assessment was completed prior to the addition of Fusion Anhui. The AVK Group has a focus to complete more accurate Scope 3 values. As would be expected from most businesses Scope 3 arisings will be more significant than their Scope 1 and 2 counterparts and gaining improved accuracy for these arisings will be a priority for 2026.

This will then enable us to set robust future targets and work in collaboration and deliver reductions throughout our supply chain.

## ENVIRONMENTAL PRODUCT DECLARATIONS

Environmental Product Declarations (EPDs) are an increasingly important requirement as customers seek greater transparency on the environmental performance of products.

Over the past 12 months, AVK in the UK has made significant progress in this area. From having no EPDs previously, we now have 10 covering a range of product families across the business.

Further details on our EPDs can be found on page 11 and 12. The development and expansion of verified environmental product data will remain a key priority moving forward.

## WHAT ABOUT SOCIAL AND GOVERNANCE?

While much of the focus has been developing and enhancing our environmental strategy; issues of health safety and wellbeing have remained of paramount importance for our employees. Each location maintains a range of health and safety metrics along with managing staff wellbeing and we hope to bring this together to form part of our ESG metrics for AVK companies in the UK and share good practice. You can see more details of some of the wellbeing and community activities on page 17-23.

Our approach to governance is very much in line with the AVK Group approach where an enhanced code of conduct has been produced and increased focus and audit of our suppliers is taking place to ensure good ESG practices in our supply chain. Much work will also be required with our supply chain to enhance our Scope 3 dataset and ensure more information and data can be supplied to our customers.

# ATPLAS FOCUS ON ENERGY MANAGEMENT & ACHIEVE CERTIFICATION TO THE ISO50001 STANDARD

We are delighted to report that Atplas have received certification to the ISO 50001 standard, the Energy Management System standard. The standard provides for a structured and systematic approach to managing and reducing energy within an organisation.

Electricity use in particular has long been a significant consideration within the management plans at Atplas, with the injection moulding process used to produce our range of boundary boxes a high energy consumer. The ISO 50001 standard will help continue the process of ensuring and improving efficiency in line with the AVK group lean manufacturing philosophy. While all electricity consumed at Atplas (and indeed across all of AVK activities in the UK) has been procured through a renewable energy supply eliminating carbon emissions, reduction remains a key focus and at the top of the hierarchy of control measures.

Alongside the addition of a number of management system documents required to be produced for the ISO 50001 standard; including a dedicated Energy Management

Policy; the implementation process has supported a number of further energy monitoring improvements and associated energy saving reductions. This includes the addition of 50 sub meters across the site to monitor the energy use performance of individual pieces of equipment including all injection moulding machines, compressors, cooling systems and other significant electricity consumers. The site now has a highly accurate understanding of exactly when and where electricity is being used.

The sub metering provides real time energy monitoring and analysis, allowing for identification and alerting to any deviations from normal energy use patterns and is improving the visibility of energy use and enabling highly accurate data driven decision making.



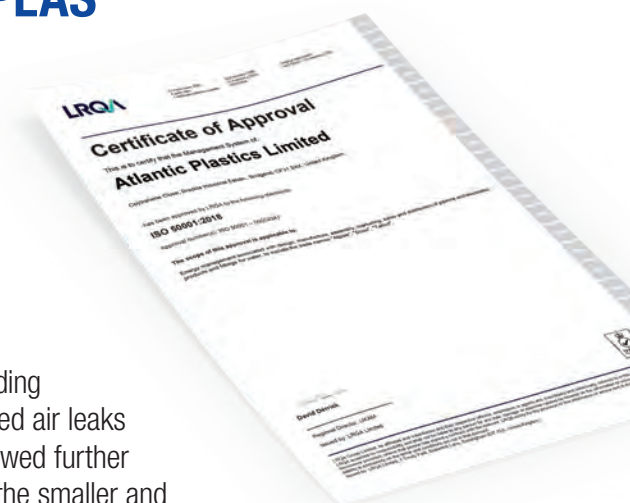
## ENERGY INITIATIVES COMPLETED BY ATPLAS

### Ambient Water System Optimisation

Data analysis identified an opportunity to optimise the ambient water cooling system used in the injection moulding process. A small increase in cooling water temperature has reduced demand on the cooling systems, delivering annual electricity savings of approximately 4,841 kWh.

### Compressed Air Survey

Compressed air is used extensively across the site within the injection moulding process. Following the completion of a compressed air survey 97 compressed air leaks were identified and remedied. The reduction in compressed air use also allowed further optimisation and changes to the compressor operating strategy, prioritising the smaller and less energy intensive back up compressor to be used as the primary unit.



## Variable Speed Drive Installation

An additional energy efficiency opportunity has been identified through the installation of a variable speed drive (VSD) on the injection moulding chiller system. As this system operates continuously throughout the year, the VSD will enable pump speeds and associated energy demand to be reduced without impacting production performance. Alongside technical improvements, operational practices also play a key role in improving efficiency. All employees have received energy awareness training, and improvements in Overall Equipment Effectiveness (OEE) and tool cavity utilisation have further supported more efficient energy use during the 2024/25 period.

Overall, the implementation of ISO 50001 at Atplas has contributed to an annual energy saving of approximately 41,255 kWh compared with the previous year, despite a significant increase in production of around 40 tonnes of additional polymer use.

Building on this success, AVK UK, Fusion, and Glenfield Invicta have now begun implementing ISO 50001 to further strengthen energy efficiency across the UK Group.



ACHIEVING  
ISO 50001  
RECOGNISES OUR  
COMMITMENT  
TO RESPONSIBLE  
MANUFACTURING  
AND CONTINUOUS  
IMPROVEMENT,  
ENSURING WE  
ARE AS EFFICIENT  
AS POSSIBLE IN  
MINIMISING OUR  
IMPACT ON THE  
ENVIRONMENT.



JAMES FRY  
Managing Director - Atplas

# DELIVERING A MORE SUSTAINABLE FUTURE TOGETHER

In 2024, the World Meteorological Organisation (WMO) confirmed that global temperatures temporarily exceeded 1.5°C above pre industrial levels for the first time. This key threshold under the UN Paris Agreement is intended to limit long-term warming to well below 2°C.

While this is seen as a temporary overshoot, it highlights the need for rapid emissions reductions to avoid more severe climate impacts, including extreme weather, rising sea levels, and risks to ecosystems, infrastructure, and public health.

## Global Progress on Sustainability Goals

The UN Sustainable Development Goals (SDGs), adopted in 2015, provide a global framework for addressing key sustainability challenges including climate action, clean water, waste, and biodiversity.

With just four years remaining to 2030, progress remains mixed. Only a small proportion of targets are currently on track, with many showing limited or stalled improvement, particularly in areas such as water management and sanitation.

## UK Approach to Net Zero and Clean Energy

The UK has a legally binding target to achieve Net Zero by 2050, supported by policies to decarbonise all sectors of the economy. In December 2024, the government also set out its Clean Power by 2030 plan, backed by a range of policy measures and legislation, including the Great British Energy Act.

Meanwhile, the Environment Act 2021 and the National Biodiversity Strategy and Action Plan (NBSAP) 2030 set clear expectations for reducing waste, increasing reuse, and recycling, and reversing biodiversity loss through improved environmental management.

For water and gas utilities in particular, these policies translate into stronger requirements around decarbonisation, resource efficiency, waste reduction, biodiversity protection, and infrastructure resilience.

These priorities directly shape the expectations placed on supply chains such as AVK in the UK.

## Regulatory Drivers in the Water and Gas Sectors

The water and gas sectors operate within increasingly ambitious regulatory frameworks that are shaping investment and sustainability priorities. Ofwat's PR24 determinations for AMP8 (2025–30) set out significant investment in the water sector to reduce pollution, improve water quality, enhance biodiversity, and reduce both operational and embedded carbon. Water companies also play an important role in supporting ecosystems, given their extensive land ownership and infrastructure footprint.

In parallel, Ofgem's RIIO-3 framework for the gas and electricity networks reinforces the need to accelerate decarbonisation and improve environmental performance. This includes preparing for the energy transition through technologies such as hydrogen, biomethane, carbon capture, and increased electrification, alongside a stronger focus on operational efficiency and emissions reduction.

Both regulators also place greater emphasis on carbon reporting and supply chain transparency. This includes the measurement of operational and indirect (Scope 3) emissions, including those associated with manufacturing and asset delivery, and clear demonstration of actions aligned with the UK's Net Zero commitments and the Paris Agreement.



SUSTAINABILITY IS EMBEDDED IN HOW WE OPERATE AT AVK UK. WE ARE INVESTING IN LOWER CARBON MANUFACTURING AND SMARTER PROCESSES, WHILE DEVELOPING PRODUCTS THAT HELP OUR CUSTOMERS REDUCE THEIR OWN ENVIRONMENTAL IMPACT AND MEET INCREASINGLY DEMANDING TARGETS.



MARTIN GREENHALGH  
Managing Director - AVK

## Sustainability in Products and Operations at AVK UK

As a key supplier to the water and gas sectors, sustainability is central to AVK UK's operations, supported by ongoing investment to reduce our carbon footprint. This includes solar panel installations, EV charging infrastructure, efficiency improvements, and the appointment of a dedicated Environment Manager.

Across our product portfolio, we continue to focus on reducing environmental impact across manufacturing, packaging, and logistics. Examples include lighter-weight product designs that reduce embodied carbon, increased use of recycled materials, reduced and simplified packaging, and improved logistics efficiency through shipment consolidation.

We also continue to develop circular solutions, including valve refurbishment capabilities, and design innovations that reduce installation time, material use, and associated emissions. In parallel, our Smart Water and Pressure Management solutions help customers improve operational efficiency, reduce maintenance needs, and minimise system losses.

Together, these initiatives demonstrate AVK UK's ongoing commitment to delivering practical sustainability improvements across products and operations, supporting customers in achieving their own environmental goals.

# ENHANCING PROVISION OF INFORMATION TO OUR CUSTOMERS THROUGH ENVIRONMENTAL PRODUCT DECLARATIONS

AVK UK, Fusion and Atplas have released our first Environmental Product Declarations (EPDs) since the last edition of Horizon as we seek to provide enhanced environmental information on our range of products.

## What is an EPD?

An EPD details the environmental impacts of a product throughout its life cycle. An EPD assesses the environmental impact against a range of measures such as land use change, acidification, Ozone depletion potential, water use and eutrophication. However, the main area of environmental impact that attracts interest is the products embedded carbon which is reported through a result for global warming potential (GWP).

The EPD requires the collation of a significant amount of information on everything from the extraction of the raw materials required, energy usage, waste generation during production, packaging material impact, transportation, installation, to any impacts during the products use and those associated with any treatment or disposal required when the product is considered to have reached the end of its useful life. The data is used within a Life Cycle Assessment (LCA) to model impacts, the process is often referred to as a cradle to grave assessment.

In order to add credibility to the outputs of the LCA; a key requirement for an EPD is for the assessment to undergo external assessment and verification. Undertaken through an independent third party verification process to ensure the assessment meets the requirements of the appropriate standards such as ISO 14025 and EN 15804.



## What Products Have we Covered?

Providing the data; specifically relating to the embedded carbon in products to our customers supports the assessment of the environmental impact for projects being undertaken and the potential when calculating Scope 3 carbon (emission not produced by a company's own activities but that are indirectly responsible for, within their value chain) with an increasing degree of quality. The information also allows manufacturing companies to identify in more detail the sources of the greatest environmental impact and seek opportunities to tackle those impacts.

Increasing the number of products covered by EPDs is a priority area within our environmental strategy; both for the products we directly manufacture but also in gathering information from suppliers of traded products such as other AVK Group company manufacturers with the ultimate aim to provide environmental data for the entirety of all products traded by the AVK UK; Fusion and Atplas. EPDs can be found through the EPD International or EPD Hub publishing sites, on our websites or can be sent on request.

INITIALLY DRIVEN BY CUSTOMER REQUIREMENTS IN THE NORDIC REGION, ENVIRONMENTAL PRODUCT DECLARATIONS (EPDS) ARE NOW INCREASINGLY BEING REQUESTED BY CUSTOMERS WITHIN THE UK. AS A RESULT, THEIR PRODUCTION HAS BECOME A PRIORITY FOR FUSION AND AVK COMPANIES BOTH IN THE UK AND ACROSS THE GLOBE.



MARK PALMER  
Managing Director - Fusion

“Providing EPDs enables customers to better understand the environmental impact of their projects, while highlighting opportunities within our supply chains to reduce the embedded carbon in our products. Since producing our first UK based EPDs, we have identified opportunities to introduce renewable energy supplies at our overseas manufacturing facilities within fusion, which will significantly reduce the embedded carbon within our products.

Many AVK group companies form part of the supply chains for AVK companies in the UK. The group's most recent sustainability report shows that 52% of total electricity consumption is now sourced from either direct generation from renewable sources or purchased renewable energy supply contracts. The AVK group's ongoing commitment to achieve carbon neutrality across the globe will continue to drive reductions in embedded carbon across our product portfolio.”

# EXTENDING ASSET LIFE THROUGH SUSTAINABLE SERVICE & MAINTENANCE

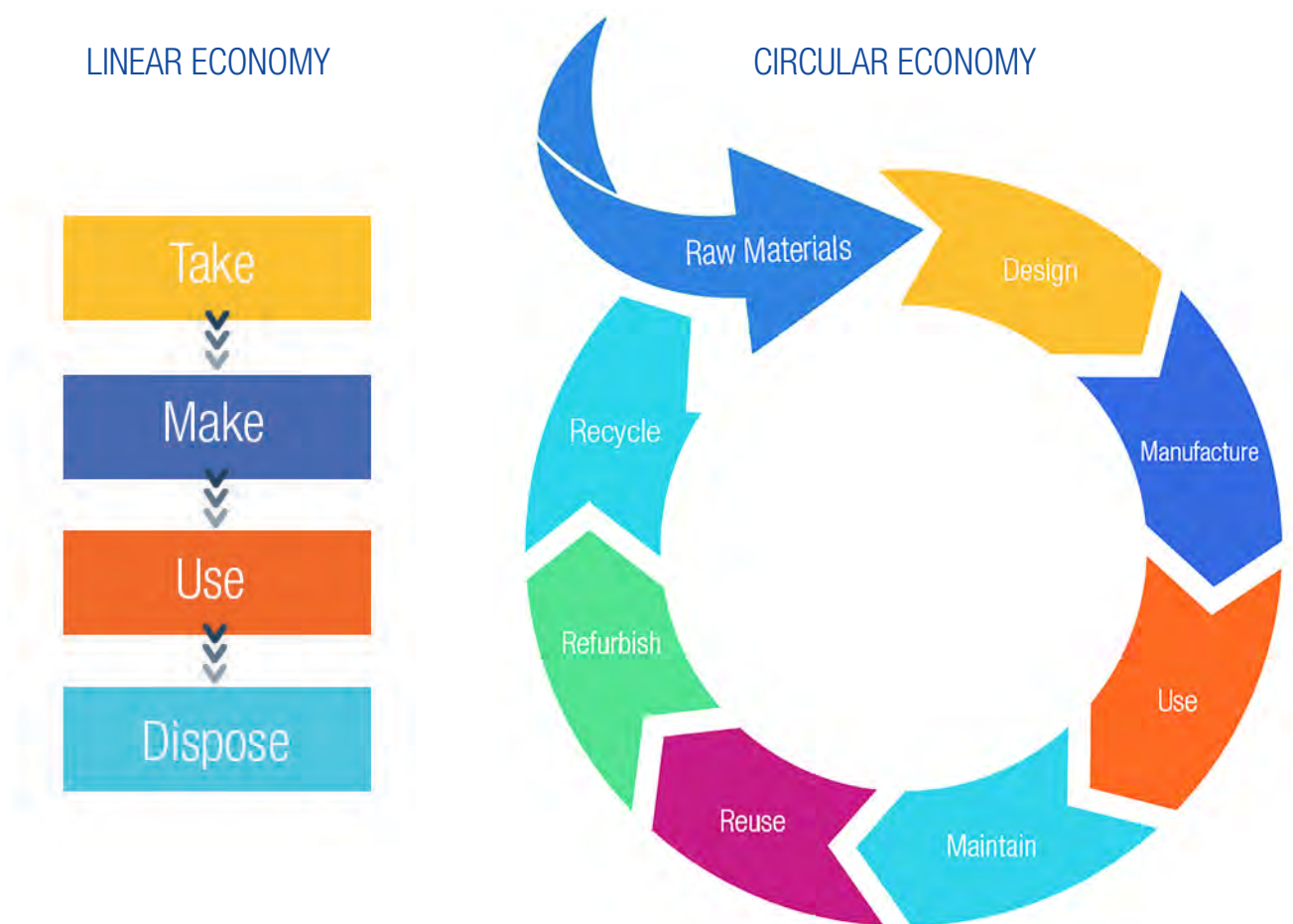
## Supporting the Circular Economy

You may have heard people talking about the circular economy and the circularity concept, but do you know what is meant by this?

Traditional economic models can be thought of as a linear economy in that materials are abstracted, consumed and disposed (take, make use, dispose).

The circular economy is built on 3 concepts:

- Eliminating waste and pollution
- Circulate products and materials at their highest value.
- Regeneration of nature



The circular economy is supported by the activities of Glenfield Invicta. The principle is to keep the products in service, through maintenance activities and refurbishment work, products are kept within use at their highest value (within the use they were originally installed for, with all the energy and materials used in original production maintained).

# GLENFIELD INVICTA REFURBISHMENT PROJECT

At Glenfield Invicta, sustainability is embedded in the way we manage critical water infrastructure.

Service and maintenance play a vital role within the circular economy, helping to preserve existing assets, reduce resource consumption, and support long-term operational reliability.

For more than a century, our engineering teams have specialised in extending the life of valves, many of which remain in service since their installation in the early 1900s.

A key example of this circular approach is our long-standing annual maintenance programme at Lochaber, where we service essential assets including the 72" auto self-closing butterfly valve, anti-vacuum valve, and 50 mm air valve. Ongoing maintenance of these valves significantly reduces environmental impact while ensuring continuous, reliable operation for the customer. The annual programme includes the maintenance activities outlined below.

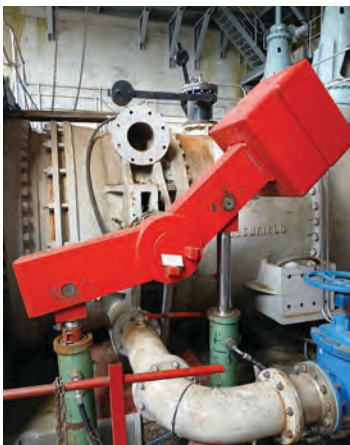
## PROCEDURE



▲ Pipeline inspection hatch was removed for full visual inspection of the isolation gate valve and butterfly valve disc. The hatch fasteners were in good condition. Gasket was replaced with new.



▲ Butterfly valve manually tripped and operated via the HPU handpump three times to confirm full functionality and closure performance.



◀ Butterfly valve disc left open at the highest safe tripping point, approximately 5mm off the fabricated spacers.



◀ Visual inspection confirmed no change to the butterfly valve seal condition.



▶ Paddle pipe inspection completed: top cover removed, fasteners and gasket replaced, and all internal components cleaned, checked and confirmed to be in good condition with free movement established.

Anti-vacuum valve inspection carried out: inspection covers removed, links cleaned, lubricated and checked for wear. Operation confirmed by lifting counterbalance levers and verifying damper performance on closing.



▶ Air valve inspection completed: cover and cowl removed, ABS components, rubber seal and fasteners replaced with new, internals cleaned and reassembled.

These valves manufactured by Glenfield Invicta have been maintained, refurbished, and reinstalled by our engineers since 1906.

This long-standing relationship with our own technology ensures unparalleled expertise while demonstrating our commitment to sustainable asset stewardship.

Our annual visits to Lochaber reflect Glenfield Invicta's wider strategy: placing maintenance at the heart of our circular approach to reducing carbon footprint, extending operational life, and minimising waste generation.

## SUSTAINING INFRASTRUCTURE FOR FUTURE GENERATIONS

Through proactive service programmes like Lochaber, Glenfield Invicta supports customers in achieving sustainability goals while protecting vital water infrastructure for generations to come.

“Water and energy asset owners are under increasing pressure to maintain ageing infrastructure while delivering lower carbon, more sustainable operations. The traditional cycle of failure and replacement is no longer viable. Instead, long-term resilience depends on intelligent asset stewardship.

This paper uses Glenfield Invicta's century-long management of the Lochaber valve installations as a real-world example of sustainable asset management in action. Valves first installed over 100 years ago continue to operate reliably because they have been systematically inspected, maintained, and refurbished by the original manufacturer. This approach preserves embodied carbon, minimises material consumption, and reduces whole-life cost and risk.

By placing maintenance at the centre of its circular economy strategy, Glenfield Invicta demonstrates how existing assets can be transformed into long-term sustainable assets.”



PAUL BOYDEN  
Managing Director - Glenfield Invicta

DEEP TECHNICAL KNOWLEDGE,  
COMBINED WITH LIFECYCLE-BASED  
SERVICE PROGRAMMES, ENABLES  
INFRASTRUCTURE TO PERFORM  
SAFELY AND EFFICIENTLY FAR  
BEYOND ITS ORIGINAL DESIGN LIFE.

IN A REGULATED ENVIRONMENT  
WHERE RESILIENCE AND  
DECARBONISATION ARE  
INCREASINGLY LINKED, THIS CASE  
SHOWS THAT THE MOST POWERFUL  
SUSTAINABILITY GAINS ARE OFTEN  
ACHIEVED NOT BY REPLACEMENT,  
BUT BY EXTENDING THE VALUE OF  
WHAT ALREADY EXISTS SUSTAINING  
CRITICAL INFRASTRUCTURE FOR  
GENERATIONS TO COME.

Elsewhere in the AVK circular economy, aspects are acted upon including within AVK UK where reusable pallets and crates are used to deliver products. While customers can use the pallets and crates themselves; AVK UK offer a collection service to enable their re-use and where feasible repairs can be made to the pallets to ensure they remain within the circular economy.

While at the latter stages of the circular economy concept; many products and packaging use recycled materials in their production; such as the Atplas range of Matrix boundary boxes, but are also readily recyclable at the point where they are deemed to have reached their end of life.

For more information on the Circular Economy concept; the Ellen MacArthur foundation provides an excellent range of information.



# AVK UK ACHIEVES ECOVADIS BRONZE BADGE

During 2025; AVK UK undertook an assessment against the Ecovadis sustainability rating scheme, this resulted in the achievement of a bronze award demonstrating that AVK UK is within the top 35% of all companies assessed within the scheme.

The assessment is based on the supply of evidence demonstrating practices against a number of detailed assessments of sustainability performance in areas such as Environment, Labour & Human Rights, Ethics, and Sustainable Procurement.



## WALK FOR WATER



Each year, the companies within AVK in the UK come together to raise money for our nominated charity, Aquabox is a remarkable organisation dedicated to delivering safe drinking water and humanitarian aid to communities affected by disaster and crisis around the world.

In September 2025, members of the Atplas team proudly took part in a charity walk to support this important cause. Spirits were high throughout the day boosted even further by the enthusiastic participation of Hugo the dog, who kept everyone smiling from start to finish.

Aquabox was originally established in 1992 by the Wirksworth Rotary Club and has since grown into a registered charity managed by dedicated trustees and volunteers. For over three decades, the organisation has provided practical, life-changing support to families facing the aftermath of natural disasters, conflict, and humanitarian emergencies.

At the heart of their work are Aquaboxes and Aqua-aid Boxes carefully prepared kits designed to support family

groups. These boxes contain water purification filters capable of providing safe drinking water, alongside essential humanitarian supplies.

Items include equipment to assist with shelter and shelter building, lighting, cooking and food preparation, hygiene, and educational development offering not just survival, but dignity and stability during incredibly challenging times.

The Aquabox team regularly visit AVK companies to demonstrate the filtration systems in action and explain the tangible impact of the funds raised. Seeing first-hand how clean water can be produced from contaminated sources is a powerful reminder of why these fundraising efforts matter. Every pound raised contributes directly to purifying water, preventing waterborne disease, and providing vital aid to those who need it most.

*We are incredibly proud to play a small part in supporting such meaningful, life-changing work.*



# AQUABOX LAUNCH PROJECT AQUADUCT



In February 2026, Paul Hubbard and Paul Jennings visited the Aquabox facility at Cromford, Derbyshire, to witness the Lean manufacturing techniques that have already been introduced in the water filter and aid box assembly lines at this very worthy charity that is almost entirely run by volunteers.

Roger Cassidy (Chair) and charity trustees Dom West and Rob Barlow informed AVK about the launch of PROJECT AQUADUCT to set up the assembly lines for the Mk5 Family Filter and as well as setting up a new assembly room to manufacture the Community Filter.

Aquabox provide water filters and humanitarian aid to people affected by natural disasters, extreme weather conditions and conflicts. Since its inception, over 125,000 water filters have been supplied across 50 different countries. AVK have been a corporate sponsor of Aquabox since 2021.

The prevalence of natural disasters is keeping the charity very busy with recent shipments of filters and aid boxes going to Ukraine, Jamaica (hurricane Melissa), Sri Lanka (Cyclone Dilwah) and Pakistan. AVK are delighted to increase their annual contribution to the charity and to offer additional support in areas such as procurement for a greater, positive impact.

**Nearly 1,000 children die each day because of waterborne diseases.**

Aquabox water filters enable disaster victims to turn contaminated water into clean drinking water until other organisations (such as WaterAid) can re-install the infrastructure.

For more information visit [www.aquabox.org](http://www.aquabox.org)

**125,000**

Water filters have been packaged and despatched to disaster areas and conflict zones around the world



**2,000,000,000**

Estimated litres of contaminated water converted into safe, clean water.



**50+**

Different countries have received aid from Aquabox



**500,000 litres**

Of clean water produced by a single Aquabox family filter



# MENTAL HEALTH & WELLBEING AWARDS



We are thrilled to share that Atplas has won the award for Workplace Wellbeing (Fewer than 250 Employees) at the Mental Health & Wellbeing Awards, Wales!

These awards celebrate individuals and organisations across Wales who go above and beyond to support the wellbeing of others and we are proud that Atplas has been recognised for our ongoing commitment to creating a supportive, inclusive, and positive workplace culture.

This incredible achievement reflects the dedication of our entire team, particularly our Mental Health First Aid team, who have worked tirelessly to champion wellbeing across the business.

And the celebrations don't stop there our very own Sharon Lewis, HR Manager at Atplas, also excelled on the night, winning the Wellbeing Champion of the Year award!

Sharon truly embodies the spirit of these awards. As HR Manager, she leads with compassion and commitment, dedicating an incredible amount of time and energy to the mental health and wellbeing of our entire team. Her passion for creating a caring, inclusive, and positive workplace has made a real difference to everyone at Atplas.

Congratulations to Sharon and to the whole Atplas team on these fantastic achievements – a true reflection of our shared commitment to wellbeing and to supporting one another every day.



## MENTAL HEALTH & WELLBEING AT AVK

Across the AVK Group, mental health and wellbeing are a key priority. At all AVK in the UK sites, trained Mental Health First Aiders are available to provide support and guidance to employees whenever it is needed.

Each AVK company also has a dedicated Mental Health First Aid (MHFA) Committee, committed to raising awareness and promoting positive mental wellbeing. These committees meet regularly to discuss topics that impact individuals, share experiences, and explore practical ways to cope, support one another, and care for our overall wellbeing.

By fostering open conversations and providing ongoing support, the AVK Group is committed to creating a safe, inclusive, and supportive working environment for everyone.

# SUPPORTING OUR CHOSEN CHARITIES



## Wear It Green Day

It was a similar story across all the AVK companies this Mental Health Awareness Week. AVK in the UK, together with Atplis, Fusion and Glenfield Invicta, turned our shared commitment to wellbeing into real world action.

From 'Sweet Stake Fundraiser' to 'Wear it Green', employees have been pulling together to create fun events, and more importantly, support each other. We believe that good mental health begins with community. When we work together it's not just about innovation, it's about belonging, compassion, and showing up for each other.



## Wear It Pink Day

Employees across all AVK sites also took part in a dedicated 'Wear It Pink' Day, raising vital funds for Breast Cancer Research. The creativity and team spirit were on full display from 'Fake It or Bake It' cake competitions to the lively Sweet Stake fundraising games, every activity was met with enthusiasm.

The generosity shown across the teams has been truly remarkable, reflecting a shared commitment to supporting an important cause while bringing people together in a fun and meaningful way.



## 72 Holes. 20+ Miles. Countless Swings... And Over £2,000 Raised!

On 20th September, five determined (and slightly bonkers!) golfers from Glenfield Invicta completed the Par for Parkinson's 72 Hole Challenge six rounds in one day, raising over **£2,000** for Parkinson's UK.

Huge thanks to our colleague Dave Wright for organising the day. With his early-stage Parkinson's, this cause means a lot to us all. Blisters, bad putting, plenty of laughs and an incredible sense of purpose. Thank you to everyone who donated or cheered us on. We couldn't be prouder of the team or more grateful for the support.

## Macmillan Cancer Support

In August 2025, employees from Fusion's UK Head Office came together for a coffee morning in support of Macmillan Cancer Support. The event was built around the fun challenge to either "bake it or fake it" - with employees bringing in everything from delicious homemade bakes to shop-bought favourites. Beyond the cakes, there's a powerful purpose. Macmillan Cancer Support is a charity dedicated to improving the lives of people affected by cancer. Their work spans far beyond health care - offering vital information, financial support, and practical help, while also addressing the emotional and social impact cancer can have.



They also campaign tirelessly for better cancer care across the UK. Every donation collected goes directly to the charity, ensuring they can reach more people and families who need their support.

# SUPPORTING OUR LOCAL COMMUNITIES

## Grassroots Sports Support

We remain committed to investing in our local community through our ongoing sponsorship of Bearsted Football Club.

This partnership allows us to play a small but meaningful role in nurturing young talent, promoting team spirit, and encouraging active, healthy lifestyles.

By supporting grassroots sport, we're helping to create opportunities for people of all ages to stay engaged, build confidence, and thrive both on and off the pitch.



## Celebrating teamwork, excellence, and a great victory!

Fusion in Australia is proud to sponsor the Western Australian Country Men's Hockey Team. Last year, the team secured the gold medal in the nationals, defeating Queensland in the finals with a hard fought 2-1 win.

Kyle Potter was named player of the tournament, and six players were selected for the Australian Country teams.

We are proud to support such a dedicated team. Here's to more victories and successful partnerships in the future!

# FOOD TRUCK APPRECIATION DAY

Across AVK UK, Atplas, Fusion and Glenfield Invicta, we came together to celebrate our teams with a special 'Lunch on Us Day'.

Each location enjoyed its own selection of delicious food as a heartfelt thank you for everyone's hard work and commitment.

From Caribbean flavours at our Kilmarnock office to freshly baked pizzas and classic burgers in Maidstone, every site enjoyed something a little different. The day was all about recognising the fantastic contribution of our people, bringing teams together, and creating a moment to pause, connect, and enjoy great food as one AVK family.



# A PEACE APPLE & WARM WISHES FROM FUSAMATIC ANHUI

In China, gifting apples on Christmas Eve is a unique tradition. The Chinese word for apple, 'Pínggu', sounds similar to the word for "peace."

On Christmas Eve, Fusamatic Anhui prepared a special gift for every employee – a shiny red "Peace Apple." This small yet thoughtful gift carries heartfelt wishes for a peaceful, joyful, and warm holiday season.

Over the years, the Peace Apple has become a cherished part of Fusamatic Anhui's culture, strengthening connections across our teams and reinforcing the values that guide our work.

More than a seasonal gesture, it represents the shared spirit of care that defines our company.



# AVK UK PARTNERS WITH ASHGATE HOSPICE TO ASSIST BEREAVEMENT SUPPORT GROUPS



AVK UK is pleased to announce a new two-year partnership with Ashgate Hospice, committing monthly support towards its Bereavement Support Groups.

Ashgate Hospice provides specialist palliative and end-of-life care across North Derbyshire, supporting patients and families facing life-limiting illness and bereavement.

During a recent visit, AVK UK Head of Marketing Julia Nixon met the team and toured the hospice facilities.

She said: "I was blown away by the compassion and dedication shown by the team. The hospice provides incredible care and vital support to families at the most difficult times."

AVK UK Chairman and Group Regional Director Paul Hubbard added: "We are proud to support Ashgate Hospice

and help ensure its bereavement services continue to be available to those who need them."

Ashgate Hospice Head of Fundraising Charlotte Butterworth said: "This support will make a meaningful difference to individuals and families experiencing grief, helping us continue to deliver compassionate care beyond end-of-life services."

As a charity, Ashgate Hospice receives less than a third of its funding from the NHS and relies on the generosity of the local community to continue providing specialist care across North Derbyshire. This partnership highlights AVK UK's ongoing commitment to supporting local communities and important charitable initiatives.

For more information about Ashgate Hospice and its services, visit: [www.ashgatehospice.org.uk](http://www.ashgatehospice.org.uk)

**2,600**

People are supported every year across North Derbyshire



**1334**

People cared for in their own homes last year



**341**

Patients received specialist inpatient care in the past year



## LOOKING AHEAD

The progress highlighted throughout this edition of Horizon reflects the collective efforts of our people across AVK UK, Atplas, Fusion, and Glenfield Invicta. From carbon reduction and energy efficiency to circular economy initiatives, product transparency, and community engagement, sustainability continues to shape how we operate and support our customers.

While significant progress has already been achieved, we recognise that sustainability is an ongoing journey requiring continued investment, innovation, and collaboration.

As expectations around environmental performance and infrastructure resilience continue to grow, AVK in the UK remains committed to delivering practical, measurable improvements that support our customers, strengthen our communities, and contribute to a more sustainable future for generations to come.



MICHAEL DAY  
Environmental Manager





[www.avkuk.co.uk](http://www.avkuk.co.uk)  
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