

INSIDE: ALFED ESG-C COURSE NOW LIVE

TOOLING

the aluminium industry

ALUMINIUM DAY:

3 key trends to watch

CARBON REPORTING

Introducing
CarbonChain comply

INAUGURAL YOUNG APPRENTICE OF THE YEAR AWARD

to be hosted at
Aluminium Federation
Annual Dinner

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ALUMINIUM FEDERATION

THE VOICE OF THE UK ALUMINIUM INDUSTRY

ALUMINIUM

NEWS

ISSUE 20 MAY 2024

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Welcome

We are thrilled to welcome Olivia McAteer to the ALFED team, who has joined us as our new Office Administrator!

Coming from a background in the waste and recycling industry, Olivia is keen to dive into her new role, supporting ALFED members and the team, and helping Sharon keep the ALFED office/admin in order.



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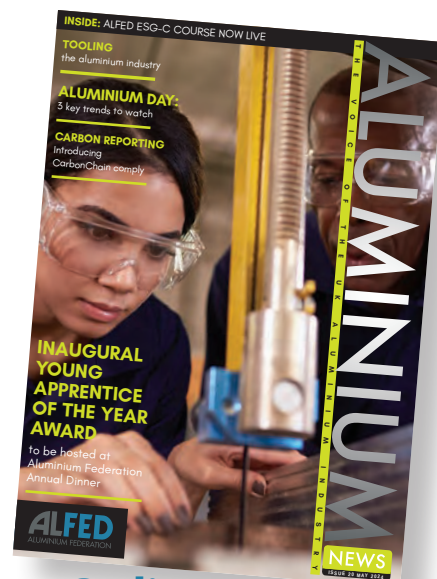
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Online now!

for the latest news, events & features.

ALUMINIUM DAY: 3 KEY TRENDS TO WATCH

Aluminium Day is an annual event aimed at celebrating the versatility of aluminium and to encourage innovation and knowledge sharing within the manufacturing, engineering and wider construction sectors.

Now in its fifth iteration, this year's theme focused on skills gaps and sought to identify the new generation of students, recruits' trainees and apprentices who are together helping shape the future of the industry.

We reached out to ALFED members from across the aluminium supply chain to find out the key trends we should be watching out for, what obstacles we're facing and what opportunities lie ahead for the industry.

1. CARBON EMISSIONS:

Carbon emissions reduction has emerged as a paramount concern integrated into business models across various supply chains, particularly in manufacturing and heavy industry sectors.

The introduction of mandatory emissions reporting under the EU's Carbon Border Adjustment Mechanism (CBAM) and the ongoing development of the UK's counterpart highlight the industry's heightened focus on environmental sustainability.

With UK carbon prices at an all-time low, businesses are exploring innovative yet cost-effective strategies to mitigate emissions while enhancing social license to operate.

Aluminium's inherent recyclability and role in the circular economy position it as a sustainable solution, significantly reducing environmental impacts compared to conventional materials.

2. GREEN SHORING:

"Green-shoring" represents the UK aluminium industry's strategic approach to emissions reduction, prioritising sustainability in manufacturing location decisions.

By retaining aluminium within domestic value chains, the industry aims to minimise emissions, strengthen supply chain resilience, and reduce reliance on imports. With substantial

economic losses attributed to downcycling and export, the UK has a unique opportunity to lead in low-carbon aluminium production.

To realise this potential, innovative projects require governmental and industrial support, alongside investments in infrastructure.

GREEN SKILLS:

While emissions reduction and green shoring offer promising prospects, addressing the prevailing green skills gap remains imperative for the UK to establish itself as a global leader in green aluminium production. ALFED members unanimously acknowledge the skills shortage within the industry and advocate for targeted initiatives to attract and train young talent. From apprenticeship programs focusing on gender diversity to specialised training in metal finishing, efforts are underway to engage younger demographics and foster a skilled workforce. Collaborative endeavours with educational institutions and organisations are crucial in nurturing talent and inspiring future generations to pursue careers in aluminium manufacturing.

As we celebrated Aluminium Day, the industry stood poised to embrace these trends, leveraging innovation, sustainability, and talent development to propel itself towards a prosperous and sustainable future.

Through collective action and unwavering commitment, ALFED Members are poised to lead the charge in shaping a greener, more resilient industry landscape.

For more information about ALFED, or to become a member, please visit: www.alfed.org.uk.

For more information about
the Aluminium Federation
and to become a member,
visit <https://alfed.org.uk/>

WHAT SOME OF OUR MEMBERS SAY ABOUT.....

THE IMPORTANCE OF ALUMINIUM TO THE UK ECONOMY

The UK construction industry, itself a major contributor to the wider UK economy, needs to reduce its carbon footprint and prioritise the use of recycled, and recyclable, low carbon building materials. Aluminium is incredibly versatile and has already fuelled innovation in the fenestration sector by enabling manufacturers like Senior Architectural Systems to create windows and doors that offer cradle-to-cradle recyclability, and which achieve excellent thermal-efficiency when in situ. Aluminium is one of the few truly sustainable construction materials available and will no doubt play a vitally important role in the creation of the buildings of the future."

By Senior Architectural Systems -
Mark Wadsworth, Managing Director



FRANK POWER, INAL (2020) LTD REFLECTS ON HIS CAREER IN THE ALUMINIUM INDUSTRY

"I've been fortunate to have worked in aluminium (extrusions) for over 50 years. In this time starting from the lowest entry position, I've been a director of an extruder, a stockholder and a processor which makes me unique within the 000's currently working in the UK aluminium industry.

My fascination with aluminium extrusions began in the longest harshest winter on record. I was 7 in 1963 it was the year the snow never went away, and it was way before you could buy a ready-made sledge from Tesco for three quid. If you wanted one you made it yourself or got your dad to do it. As my dad worked on the shopfloor of an extruder

he had access to aluminium extrusions, thus mine was adorned with aluminium runners (originally destined for Harrison Draper as curtain track) but doctored to a level worthy of "Cool Runnings." It was the then equivalent of the current Formula 1 DRS.

I'm enjoying the final chapter of my long and undistinguished career working with the Sherwood Group one of the few places where the owners, both industry titans, are older than me (thank you Paul and Terry). From winning awards to working with Apple, to speaking at the House of Lords, to being held at gun point by the IRA, it's been a journey...."



ALUPRO DISCUSS THEIR 30 YEARS AS A MEMBERSHIP ORGANISATION FOR THE ALUMINIUM PACKAGING INDUSTRY

Alupro is a not-for-profit membership organisation with 30 years' experience representing the UK's aluminium packaging industry value chain. We represent businesses who work to fulfil the industry's obligation to meet, and exceed, recycling targets for aluminium packaging. Combined, those businesses contribute hundreds of millions of pounds to the economy, support thousands of well-paid and skilled manufacturing jobs and most importantly facilitate a sustainable future by ensuring aluminium is kept in circulation and available to supercharge the UK's net-zero ambitions.

Our sector is thriving and has committed to the post-Brexit UK economy by investing millions of pounds into 3 new factories being built in England and Northern Ireland, creating hundreds more highly skilled manufacturing jobs. Nevertheless, our members are grappling with the same challenges as other sectors of the economy; rising costs of energy, goods and services and

the need to decarbonise both at pace and at scale.

As a highly recyclable, permanent material that can be recycled again and again, aluminium packaging recycling rates have hit record-breaking levels in recent years; for example, 82% of beverage cans were recycled (the highest of any beverage container in the UK). In the last month, we have launched consumer engagement programmes in Wrexham, West Devon, Suffolk, Bracknell Forest, Wokingham and Reading. Our programmes aim to educate consumers on the benefits of recycling aluminium and best practice recycling behaviours through a variety of communications including social media, print and immersive experiences. As we move ever closer towards a bright new future for the recycling industry, relevant, timely and consistent communication is more important than ever. We're proud to be continuing with our hugely successful aluminium packaging recycling programmes (MetalMatters and Every Can Counts) and remain committed to flying the flag - both in terms of awareness and education."



ALFED ANNOUNCE CBAMBOO AS NEW SUSTAINABILITY SUPPLIER MEMBERS

We are pleased to announce Cbamboo as new ALFED Sustainability Supplier Members! We are excited to work with Co-Founder and CEO, Gabriel Rozenberg to help keep ALFED members up to date with all the latest information on all things CBAM. Gabriel has highlighted more about the company and the direction that he and business partner and co-founder, Daniel Sharp want to take the business in the future.

So, who are Cbamboo?

This year the EU quietly made one of the biggest changes in decades to the way it imports aluminium and other metals. The Carbon Border Adjustment Mechanism (CBAM) is reshaping value chains by pricing embedded carbon for the first time.

Cbamboo is a UK-based start-up that is building the operating system for CBAM and other carbon border taxes around the world. Cbamboo's software platform helps both importers and exports to comply with these complex new requirements. With Cbamboo's data tools, firms can navigate CBAM, cut their supply chain emissions, optimise their carbon taxes and avoid costly fines.

Can you tell us about the founding story of Cbamboo, and how the company came about?

Cbamboo was founded in May 2023 when we (Gabriel and Daniel) met each other on the Carbon13 venture builder, based in Cambridge, UK. Each of us is a first-time founder who quit more reliable careers in order to build something new that could reach venture scale in the climate world. We are both software people, and we were intrigued by the potential for regtech tools to service the wave of new climate legislation coming out of the EU and USA.

We started researching CBAM as it was going through the final stages of becoming law, and we were



• Gabriel Rozenberg,
Co-Founder and CEO, Cbamboo

amazed by what we discovered. This is a vastly ambitious new piece of legislation. It will be a severe compliance challenge for tens of thousands of companies. But if used in the right way, it will be a huge incentive for businesses to decarbonise industry – potentially the most impactful such measure out there right now.

The EU is setting up the world's biggest ever carbon border tax, and it's a model for the planet, but the European Commission are not software developers, so the gap in the market was obvious. We felt like we could make a huge impact by building the operating system for carbon border taxes everywhere.

What is core competence of Cbamboo?

The most important point that our customers need to know is that we are totally built around the needs of the CBAM process. A lot of businesses are trying to do CBAM as an add-on, but they tend to skip part of the process, whether that's carbon accounting, supplier outreach, or report uploading. Our bet is that a lot of businesses want one tool to manage CBAM for them from start to finish. We offer an integrated solution. And our team by design combines the skillsets that you need to make sense of CBAM: people with backgrounds across carbon, supply chain, customs, and even politics.

We've got a lot more planned, but this is where it starts.

We think that clear and accurate communication is core to getting this right. A lot of businesses come to Cbamboo because they've seen our marketing and listened to our webinars, and they've learnt something useful from what they've heard. That builds trust. So, we think good comms is going to be a differentiator for whoever wins in this market.

Where do you see the most uncertainty or confusion for your customers when it comes to CBAM?

Pretty much everything! To begin with it was chaos: the European Commission did its best, but it was a very hard system for companies to get their heads around. Even today we find ourselves answering quite basic questions a lot of the time. Businesses need reassurance that they are on the right path.

We are now seeing the understanding spread that the supply chain needs to provide carbon data. But there's still a lack of awareness of what kind of data is required. We see large, sophisticated suppliers sending their customers their existing carbon accounting reports under the GHG Protocol standard. The problem is that EU CBAM sets up a new, subtly different, system for accounting for carbon emissions that also involves a great deal of supplementary data.

Where do you see Cbamboo going in the future?

Our vision is to decarbonise industry. That's an unimaginably vast project, so Cbamboo can only ever play a small part in that story, but it's why we are here. With that lodestar in mind, our product will naturally expand to cover all kind of data and financial management tools around CBAM. We will make sure to build tools for every kind of CBAM and CBAM-like system that gets developed. If we can build trust with our customers and product users, then our platform has the opportunity to shine a light on the incentives that exist for businesses to clean up their supply chains. It's a huge goal and we are very excited to be working on it.

For more information on Cbamboo, please visit: www.cbamboo.com.



Benfleet Scrap Co Ltd

Benfleet Scrap Co Ltd, has been operating for nearly 30 years owned by Richard Leeman. The Leeman family have been in the metal industry since the days of horse and cart. What began as a small-scale operation for Benfleet Scrap has now become a well-established globally known business. The company continue to invest in cutting edge technology to refine the recycling process, enhancing the quality of metal internationally traded.

Leo Leeman, Director of Benfleet Scrap, commented on their new ALFED membership: *'Benfleet Scrap have significantly invested in the latest technology in aluminium recycling which includes shredding and TOMRA's XRT sorting equipment. I feel ALFED will help support our knowledge of the aluminium industry though the access to relevant news and networking events.'*

www.benfleetscrap.co.uk



Mypower

Mypower designs and installs award winning commercial solar photovoltaic (PV) systems for businesses across the UK. Our clients benefit by generating their own energy at the equivalent rate of 4-5p/kWh, significantly lower than grid supplied electricity rates, whilst also reducing their impact on climate change.

Speaking on their new sustainability supplier membership, Business Development Director, Neil Stott Commented: *"We were recommended to ALFED by our customer Michael Horan at Sherwood Stainless Steel & Aluminium. After discussion with the ALFED team we decided to join given the federation and its members' focus on sustainability and the need for low-cost electricity within this high energy consumption industry. Mypower aims to share the benefits of solar PV, and dispel some of the myths associated with the technology, and ultimately provide sound advice as to whether solar PV is right for a particular business or site".*

www.mypoweruk.com



ALFED ESG-C COURSE NOW LIVE

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FOR
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MEMBERS!

Equip yourself to drive positive environmental, social, and ethical change in your business with the ESG-C Course. The course provides you with technical and legal knowledge about all the different aspects of ESG, with a special focus on carbon emissions and reporting.

The course is presented across three formats – articles, podcasts, and flashcards – and can be accessed at your own pace. Upon completing the course, you will become an ESG-C Officer registered with both the ESG-C Course and ALFED.

Confronting an issue of particular relevance to the aluminium industry, the ESG-C Course provides an outline of the carbon and greenhouse gas emissions reporting processes for UK businesses.

The dedicated module, Carbon Emissions and Reporting, covers the following areas:

- Introduction to Carbon Emissions
- Measuring Emissions
- Legal Reporting Requirements
- Climate Actions for Businesses
- Carbon Offsetting

Within this module, special attention is paid to the introduction of Carbon Border Adjustment Mechanisms in the UK and EU. The ESG-C Course introduces what a CBAM is, who they apply to, and the timelines businesses must follow to become

compliant. The course presents the most up-to-date information on the EU and UK CBAMs and will be updated according to developments in both mechanisms.

Completion of the course is achieved through an interview. Each candidate who completes the course will be included on the ALFED ESG-C register (if requested). They will be supplied with all the tools to fulfil a company's ESG-C policy requirements.

THE ALFED ESG-C COURSE WILL BE £480PP + VAT.

ALFED members can send two employees on the course for the price of one.

THE FULL COURSE WILL CONSIST OF:

- Learning materials on all ESG-C areas, comprising 14 modules and approximately 20 hours of learning.
- 4 hours of podcasts.
- Templates for all ESG-C policies covered by the course.
- A risk register that can be used by all candidates for company policies.
- The opportunity to have the risk or company register audited by ALFED.

For further information, you can get in touch with the ESG-C Team by emailing info@esgcourse.co.uk or visiting their website: <https://esgcourse.co.uk/>.



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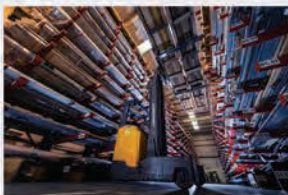
Righton Blackburns has been the trusted supply partner for aluminium across UK manufacturing industries for over 100 years.

The company's nationwide network of 10 Service Centres offers a comprehensive range of aluminium products in all the commonly used forms including bar, section, sheet, plate, sign channel, patterned sheet, road traffic products, Triplate transition joints and honeycomb panels. In addition, Righton Blackburns is a specialist supplier of bespoke aluminium extrusion with supply chain management capability.

The company uses its own, dedicated transport fleet to provide an efficient, reliable delivery service from locally held stock for standard, non-standard and customer-specified material.

Each Righton Blackburns Service Centre provides:

- Experienced product specialists
- Extensive range of locally held stock
- In-house cutting and fabrication facilities
- Dedicated delivery vehicles
- Next day delivery service



Contact your local Service Centre for further information www.rightonblackburns.co.uk

ALUTRADE CONTINUES TO CHAMPION ALUMINIUM RECYCLING EXCELLENCE WITH PINPOINT PRECISION

Alutrade is on an industry-leading mission – a mission that has already pushed new boundaries and revolutionised the aluminium recycling landscape on multiple levels.

As the UK's largest independent aluminium recycling company and extrusion specialist, Alutrade remains one step ahead of the curve when it comes to continuously perfecting its processes and refining the end result.

Driven by its vision to achieve aluminium recycling excellence and keep as much material in the UK as possible, the Oldbury-based company has significantly invested in numerous pieces of state-of-the-art equipment in recent years. And this investment has been underpinned by the company's laser-focused approach to reviewing and refining every single element of its processes to achieve game-changing results for its customers, which include improving their scrap recycling rates by 100%.

99% CLEAN ALUMINIUM

In 2021, Alutrade further cemented its industry-leading status with the installation of TOMRA's most advanced X-TRACT™ x-ray metals sorting machine to date, which is capable of separating fractions down to 5mm at even higher purity levels.

The investment came several years after TOMRA and Alutrade first starting working together to fine-tune the capabilities of the X-TRACT™.

"We were the first company in the world to install this particular version of the X-TRACT™ which, thanks to its revolutionary sensor-based technology, has enabled us to recover 99% clean aluminium," explains Ed George, Alutrade's Commercial Manager.

"More importantly, the technology has allowed us to instantly upgrade our material, so that it can remain in the UK rather than being exported, enabling us to close the loop on the recycling process as much as possible and convert scrap aluminium back into high quality aluminium."

Fitted with a high-acutance XRT sensor, the X-TRACT™ ensures sharper detection and shorter integration times for higher throughput, while the high-power (up to 1,000w) x-ray source is capable of processing multiple applications and grain sizes. An extended separation chamber reduces material loss by improving the trajectory of sorted objects

and a new catcher hood ensures safer access and faster maintenance.

DOUBLE X-TRACT™ INVESTMENT

Since installing the new generation X-TRACT™ system, Alutrade has increased its material processing outputs from one to two tonnes to between four and five tonnes an hour.





And now the company is doubling down on its success, with the installation of a second new generation X-TRACT™ unit, which represents a £300,000 investment.

"Having the second X-TRACT™ in place has increased our capacity by 20% and has eliminated downtime generated by mechanical sorting. It's also reinforced our industry-leading status because we are the first aluminium recycler in the UK to run two of these X-TRACT™ machines. At the same time, we have also recently invested in a new pre-shredding machine, which has enabled us to significantly increase our capacity," adds Ed.

"We are delighted to collaborate once again with Alutrade on their latest upgrading project to supply and install the second latest generation X-TRACT™," explains, Terry Keyworth, Segment Director Metal at Tomra Sorting Limited.

"Alutrade's trust in TOMRA technology reinforces their commitment to advancing the UK aluminium recycling industry. It is a testament to the unparalleled quality



and efficiency that our advanced sorting machines deliver. Together, we strive for new standards in producing premium, green aluminium."

Ed concludes: "We will continue to invest in cutting-edge technologies that rapidly increase the quality of input material. Material that was historically exported out of the country can now be supplied to UK remelts, firmly closing loops within the UK's aluminium recycling industry."

PRIVATE HEALTHCARE IS PEACE OF MIND



No matter how fit and healthy we are, it is inevitable that at some point in our lives we will fall ill and need medical care. And when illness does strike it is to the NHS that most people will turn in seeking a diagnosis, treatment and recovery.

The NHS has for some years been showing signs that it, too, is not in the best of health. A growing and ageing population is putting an ever-increasing strain on staff and services. A problem exacerbated by the coronavirus pandemic.

Reports of underfunding, a shortage of medical staff, noisy and overcrowded wards, cancelled operations and long waiting times will be familiar to everyone.

In England, hospital waiting lists are longer than ever before, with a total waiting list of 7.3 million people.* This is the highest number since records began and illustrates the severe pressure that the NHS is under.

QUICK, PRIVATE AND CONVENIENT

Understandably, these lengthy delays are causing additional stress for patients, undermining their health and quality of life even further. How many people do you know whose physical health and mental well-being has deteriorated from the anxiety of having to wait months for a hospital appointment?

All this can be avoided by taking out private health insurance. Seeing a doctor in private practice used to be only for the wealthy, but not anymore as the cost of private medical cover is becoming more affordable.

A private medical plan delivers prompt access to hospital consultants, thus avoiding lengthy waiting lists. Patients can choose from an extensive list of hospitals throughout the UK; if they need to be admitted, they will have their own private room equipped with TV and telephone, and visiting is arranged to suit patient and family. A quick, private and convenient service that removes many of the anxieties associated with NHS hospital stays.

TAKING CONTROL OF YOUR HEALTHCARE

However, those interested in taking out health insurance should not leave it too late. As we get older our healthcare needs increase. Therefore, as only some of the best health insurance companies provide cover for pre-existing conditions, the best time to invest in getting private treatment for illnesses you may suffer tomorrow – is today.

By acting now you can ensure your future healthcare will not be dictated by NHS bureaucracy and, just as importantly, you will be able to benefit from the widest possible cover.

Private health insurance cannot guarantee good health, but it can ensure that when you are feeling unwell you will quickly receive the best possible care, when and where you want it. The peace of mind that comes with that knowledge cannot be underestimated and is often the most important factor for people deciding to take control of their healthcare provision and "go private".

For further information and a no obligation quotation contact HMCA by telephone on 01423 799949 or visit the exclusive HMCA Aluminium Federation website here: <https://www.hmca.co.uk/alfed>

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*The Independent 12 March 2023. <https://www.independent.co.uk/news/health/nhs-waiting-list-health-record-may-b2336891.html>

Private Medical Cover with guaranteed acceptance

The top half of the page features a dark blue background with a complex circuit board pattern. A glowing, stylized brain is centered in the upper right, composed of circuit traces. A yellow curved line separates this graphic from the white text area below.

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More info at ukmetalsexpo.com



DIVE INTO UK METALS EXPO 2024: OPENING DOORS ON 11TH AND 12TH SEPTEMBER AT THE NEC BIRMINGHAM



Save the dates and secure your spot for UK Metals Expo 2024, the UK's Leading Metals Industry Supply Chain Event. Taking place on September 11th and 12th at the NEC in Birmingham, this expo guarantees the ultimate networking hub with an immersive showcase of the latest trends and innovations.

From primary metal manufacturing to supply chain management, processing, fabrication, machinery, engineering, surface coatings, and recycling, UK Metals Expo brings together the entire metals supply chain with the engineering and manufacturing sectors, all under one roof.

This year's expo is gearing up to be bigger and better than ever, with over 300 supply chain exhibitors, 100 speakers, and an expected turnout of over 6,000 industry professionals. It presents an unparalleled opportunity to network with peers, source innovative products and services, and stay updated on industry developments and regulatory changes.

"ALFED is delighted to collaborate with UK Metals Expo since its inception in 2022. The 2023 edition marked a significant milestone, witnessing impressive growth with a twofold increase in both exhibition space and visitor attendance compared to its inaugural year. This event fulfils a longstanding industry demand, and we are pleased to continue our partnership in the upcoming 2024 edition, reaffirming our commitment as a sponsor and exhibitor," said ALFED's CEO Tom Jones.

This year, the event will feature an impressive line-up of exhibitors, including leading names such as Hydro Aluminium, Alloy Heat Treatment (AHT), Alutrade, Outokumpu Stainless Distribution, Anglo Stainless, Eural Gnutti SPA, AMEG (Amari), Righton Blackburns, Smiths Metal Centres, Hempel Special Metals, Smart Architectural Systems, Voss Stainless, Kasto, Trimble, Tata Steel, British Steel, ArcelorMittal, Marcegaglia, and many others.

UK Metals Expo offers a free-to-attend exhibition and conference, providing a platform for showcasing innovative products, services, and interactive sessions led by industry experts from

various sectors, including construction, transport, energy, engineering, manufacturing, and packaging.

Attendees can expect live demonstrations, product launches, and interactive displays, providing an immersive experience of the industry's latest solutions and unparalleled networking opportunities.

The conference program features over 50 sessions spread across four stages, with insights from over 100 leading practitioners. Attendees will gain valuable insights into the current state of the metal industry, along with emerging technologies and strategies to achieve Net Zero.

"It is a timely event and totally free to attend! The UK has significant challenges and opportunities in achieving net zero through advanced materials and manufacturing. A thriving home-based metals sector is a prerequisite for success. This event will help foster collaborations and signpost the way to get there," said Lord Rupert Redesdale, UK Metals Expo Chair.

The conference agenda covers a wide range of topics relevant to the aluminium sector, including sustainability, decarbonisation, circular economy, supply chain management, and the impact of regulatory changes post-Brexit.

The conference provides a comprehensive platform for stakeholders in the metals sector to exchange ideas, share best practices, and collaborate on implementing concrete solutions for decarbonisation, thereby driving UK Manufacturing and Engineering towards a more sustainable future.

"Thank you for a most inspiring and hugely educational event. I am already looking forward to next year's event, which I am sure will be even bigger and better," said the Director of Purchasing at Amari METALS after attending the 2023 show.

Register now to secure your place and take advantage of this unique opportunity to network with industry peers, stay ahead of the curve in this dynamic and ever-evolving industry, and foster new partnerships.

Remember, the exhibition, seminar program, and all networking opportunities at UK Metals Expo are completely FREE!

For more information on UK Metals Expo 2024, including registration details and a full list of exhibitors, visit the event website at www.ukmetalsexpo.com.

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carbon reporting
needs



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- ✓ Carbon Border Adjustment Mechanism
- ✓ Corporate Carbon Footprints
- ✓ And more...



Report

Total Emissions

137,450

Tonnes CO₂e

Your Report

Total Emissions Intensity
2.48 tCO₂e/t

Total Emissions
379.5 tCO₂e

GHG Emissions Inventor

Emissions Intensity by Life Cycle

Data Resolution



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CarbonChain.com/comply-demo



The Aluminium Federation (ALFED) is thrilled to announce the launch of the inaugural Young Apprentice of the Year Award, set to take place at the prestigious ALFED Annual Dinner on Thursday, 28th November 2024, at the De Vere Beaumont Estate in Windsor.

This exciting event aims to celebrate the outstanding achievements of young apprentices within the aluminium industry and highlight the importance of nurturing talent in our sector.

As the rate of change in our world accelerates and technology continues to shape our future, young people are poised to play a crucial role in driving innovation and progress. ALFED recognises the vital importance of supporting and empowering the next generation of professionals in the aluminium industry. With this in mind, we are launching the Young Apprentice of the Year Award to honour the remarkable contributions of young apprentices who are shaping the future of our industry.

The award ceremony promises to be a glamorous affair and will provide a platform to showcase and celebrate the exceptional talent and dedication of apprentices across the aluminium sector. From manufacturing to sales, apprenticeships offer a flexible pathway for bright, highly skilled individuals to embark on rewarding careers in our industry.

All of this wouldn't be possible without the help of Michael Horan, CEO, Sherwood Stainless & Aluminium, who was previously responsible for launching a similar award scheme in the steel industry.

"Our industry is facing a skills gap shortage, and it is essential that we take proactive steps to attract, upskill, and retain the best young talent," explains Michael.

"The Young Apprentice of the Year Award will not only celebrate the achievements of our apprentices but also inspire and motivate the next generation of leaders in our industry," says Michael.

INAUGURAL YOUNG APPRENTICE OF THE YEAR AWARD TO BE HOSTED AT ALUMINIUM FEDERATION ANNUAL DINNER



Nominations for the award are now open, and details on how to apply or nominate apprentices can be found here:

www.alfed.org.uk/alfeds-young-apprentice-of-the-year/.

Through the Apprentice Award, we seek to recognise and celebrate the brightest young apprentice talent from within the steel service centre sector and its supply chain.

Apprentices can be drawn from any subject or departmental area, including operations, engineering, commercial or office roles.

The award is open to any age or apprenticeship level.

A short list of five applicants will be selected for commendation and invited to celebrate their success at the prestigious ALFED Annual Dinner on Thursday 28th November 2024.

The winner will be presented with a trophy and a £1000 prize. The four other highly commended apprentices will receive a £250 prize as recognition of their achievements.

For more information about how you can support the Young Apprentice of the Year Award and sponsorship opportunities, please view the sponsorship brochure: https://issuu.com/alfed2/docs/young_apprentice_awards_brochure?fr=sNzl3YjYyNzgOMDg

Don't also forget to book your tickets to secure your place at this event - spaces are limited, and we'd love for companies to invite and host your young apprentices on your tables to cheer on the shortlisted nominees on the night!

More than 200 tickets for the Annual Dinner have already sold, bringing together ALFED members from across the entire aluminium supply chain for an entertaining night full of celebration.

Book your tickets now:
<https://alfed.org.uk/event/alfed-annual-dinner-2024/>



Have you got your **ALFED** Annual Dinner Tickets?



28th November 2024



De Vere Beaumont Estate, Windsor

Thank you to our **confirmed** 2024 sponsors!



Scan to get your tickets!



ALFED
ALUMINIUM FEDERATION

BY RUMI JAHANI, CUSTOMER SUCCESS MANAGER, CARBONCHAIN

As the economy transitions to net zero, aluminium is a hot commodity, with demand expecting to grow 40% by 2030. That means producing an additional 33.3 million metric tons of metal.

This presents an opportunity for producers and traders – beyond just ramping up supply.

BUSINESS-AS-USUAL WON'T SATISFY GROWING DEMAND: LOW CARBON FOOTPRINTS WILL

The next race for the automotive industry is to reach zero-emissions car production; this means relying on aluminium as a key material, but also grappling with aluminium's role as a secret emitter in electric vehicles. Electric cars may enable zero-emissions driving but they have large manufacturing carbon footprints, with emissions from materials **40% larger** than traditional combustion engine cars.

Per tonne, aluminium is one of the most carbon-intensive materials in the world – more than steel and cement. But there's also significant variation: emissions can range from around 3 tonnes of carbon dioxide equivalent (CO₂e) to over 20 tonnes of CO₂e, depending on the energy sources and production methods used.

From automotives to power to consumer goods to ships, major industries are turning their attention to how to secure those lower-carbon options. Leading suppliers are showing it's possible. [And new data shows aluminium emissions decoupling from growth.](#)

REGULATION AS AN OPPORTUNITY FOR TRANSPARENCY

With growing regulatory scrutiny on [aluminium emissions](#) like the [EU CBAM](#), there's an opportunity for producers and traders to measure emissions across the lifecycle with accuracy – and to use those calculations to share quantified product carbon footprints externally, and to inform net-zero strategies internally.

That way, customers and investors can recognise and reward existing low-carbon aluminium, while higher carbon suppliers can develop data-driven strategies to cut emissions and start capturing some of the [low-carbon market share](#).

Transparency alone can be a differentiator too. Companies with accurate reports and targets are providing customers with

intelligence to inform carbon pricing strategies and to prepare for tightening regulations and trade finance demands – even if they are still on their journey to low-carbon products.

UNDERSTANDING PRODUCT CARBON FOOTPRINTS

A product carbon footprint (PCF) is the total amount of greenhouse gas emissions generated throughout a product's supply chain, expressed as a carbon intensity or total emissions. This encompasses all emissions from upstream activities (such as material extraction and processing) to downstream activities (including delivery, usage, and disposal). For example, a car's carbon intensity might be quantified as # tCO₂e per vehicle, while a consignment of aluminium itself might be presented as # tCO₂e per tonne.

As part of their ongoing sustainability efforts, Niche Fusina Rolled Products (Fusina) uses CarbonChain's software to provide [detailed product carbon footprints](#) for every custom-made aluminium product. Measuring supplier emissions with accuracy has enabled Fusina to pledge 100% low-carbon sourcing all of its primary aluminium as a key differentiator.

3 KEY STAGES TO CALCULATING PCFS

To get started with PCFs, the process involves, in brief:

1. Setting the system boundary: Deciding whether to use a "cradle-to-grave" approach (from source to end of product life) or "cradle-to-gate" approach (covers emissions before delivery to customer). This decision will be influenced by the product type and its lifecycle.
2. Collecting the data: Gathering both production process information and emissions data is essential. The quality of this data plays a significant role in the accuracy of the PCF.
3. Calculating the emissions, using the formula of activity multiplied by emissions factor for each process within the system boundary.

[Read CarbonChain's full detailed guide to product carbon footprints.](#)

CARBON FOOTPRINTING CAN NOW BE ACCURATE AND AUTOMATED

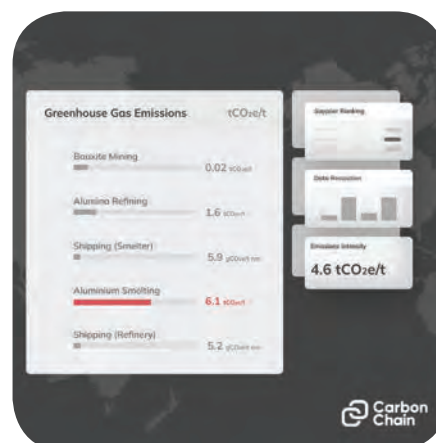
Businesses starting out on their product footprinting journey face a range of barriers, from sourcing asset-level emissions factors and gathering and verifying supplier data, to implementing complex carbon accounting methodologies that require significant expertise.

To avoid errors and automate the process, manufacturers, traders and commodity trade finance providers are turning to specialist tech solutions for verified [carbon accounting](#).

In a move to make it easier to procure low-carbon metals, customers of [thyssenkrupp Materials Services'](#) European materials distribution units can now access on-demand product carbon footprints via a digital tool for carbon traceability and intensity.

As demand grows for [certified green aluminium](#), first-movers will gain a competitive advantage. That means making product carbon footprints a key part of your offering. It's a fool-proof way to future-proof your product lines.

Stand out as a sustainability leader. Create automatic carbon footprints for every product, on quote or delivery. Book a demo with CarbonChain.



Sustainability Strategy Day

Date: Thursday 6th June 2024

Venue: BMA House, London

Discover pathways to sustainability and explore strategic technologies at our upcoming Sustainability Strategy Day, exclusively tailored for Aluminium Federation members. This one-day event promises engaging discussions, insightful workshops, and valuable networking opportunities as we navigate the road to net zero together.



House of Lords Lunch

Date: Thursday 20th June 2024

Venue: House of Lords, London

The ALFED House of Lords Lunch is back in June, hosted by Lord Redesdale, discussing the theme of building a UK industrial strategy for the UK aluminium sector.

The UK aluminium sector is a vital contributor to the UK economy, supporting the employment of more than 100,000 full-time jobs and contributing almost £8 Billion in GVA annually. However, to ensure its continued success and competitiveness, the sector requires a clear and robust industrial strategy. Join us at the House of Lords to share your views!



London Metal Exchange Visit

Date: Tuesday 9th July 2024

Venue: London Metal Exchange,
10 Finsbury Square, London, EC2A 1AJ

The London Metal Exchange (LME) is the world centre for the trading of industrial metals – the majority of all non-ferrous metal futures business is transacted through its platforms. ALFED Members are invited to attend a special visit to the LME for a briefing, followed by a tour of the Trading Ring in action.



Women with Metal Conference

Date: Tuesday 29th October 2024

Venue: International Convention Centre, Birmingham

The inaugural Women with Metal conference is back for a second year, although hosted for the first time in partnership with ALFED. The conference is founded and hosted by Kirsty Davies-Chinnock, Managing Director of Professional Polishing Services Ltd. Event speakers will include influential women including; Selling for Success by Gemma Crampton, Founder of Envision Training & Development, Communicating with Impact: Unleashing the Power of Emotional Intelligence by Steph Snade, and Building Connections Confidently: Mastering Networking for Professional Success by Denise Morris.



ALFED Business Briefing and Annual Dinner

Date: Thursday 28th November 2024

Venue: De Vere Beaumont Estate, Windsor

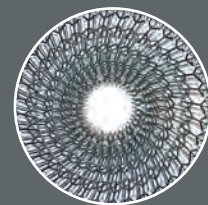
After the huge success of the 2023 dinner, this year's event is set to be hosted at the elegant De Vere Beaumont Estate in Windsor for the first time, holding a record number of guests. Another fantastic networking opportunity for members to come together to celebrate the end of another year in the aluminium industry, while it is also filled with valuable insights from the briefing, followed by the inaugural black-tie dinner – all set in the prestigious English capital city.



NEW! Introduction to Aluminium Surfaces & Treatments

Date: Wednesday 4th –
Thursday 5th June 2024

Price: £590 (10% discount for
ALFED Members)



An online course hosted by Innoval Technology, in association with ALFED. Course modules will include: Aluminium Surfaces, Surface Cleaning, Surface Pre-Treatment, Anodising and Coating Technologies.

To register your interest, please visit:

www.alfed.org.uk/event/introduction-to-aluminium-surfaces-treatments/

ALFED ALUMINIUM FEDERATION TRAINING COURSES

WORLD OF ALUMINIUM TRAINING

The World of Aluminium is an intermediate level technical course specifically designed for production engineers, process and quality technicians, stockholders, customer facing sales/marketing persons and material/product purchasing materials. This course is aimed at individuals who have a solid basic understanding to confidently engage with the aluminium industry and its products. Technical elements are balanced with insights into the history of aluminium, its growth as the strategic metal of society, its sustainability properties and its illustration of products, to create a holistic broad rounded knowledge.

Tuesday 24th September 2024

To find out more, please visit:

alfed.org.uk/event/world-of-aluminium-training-2/



9.00am – 4.30pm



Bragborough Hall Business Centre, Daventry, NN11 7JG

ALUMINIUM LIGHT TRAINING

The Aluminium Light training is a tailored course on aluminium as a strategic metal and a basic introduction for existing staff or new starters who don't have a technical background.

During the course, delegates can expect to cover modules, including: Aluminium Light, Aluminium Production and Global Demand, Wrought Aluminium and Applications, Heat Treatment of Aluminium, Elastic and Plastic Behaviour of Metals, Production of Wrought Aluminium, Extrusion, Drawing, Shaping and Forming of Aluminium, Corrosion and Protection of Aluminium, and Casting Technologies.

Tuesday 22nd October 2024

To find out more, please visit:

alfed.org.uk/event/aluminium-light-training-2/



9.00am – 4.30pm



Bragborough Hall Business Centre, Daventry, NN11 7JG

TOOLING THE ALUMINIUM INDUSTRY

Since joining as an ALFED Member, Tyrolit has continued to develop its tooling offerings to the aluminium sector and more recently has announced a product range specifically designed for those who work with aluminium.

As one of the world's leading manufacturers of grinding, abrasive and dressing tools, as well as a system provider for the construction industry, Tyrolit offers tailored grinding solutions for various applications, as well as a comprehensive assortment of standard tools for customers all over the world.

With roots in the heart of the Austrian Alps, but a UK office based just down the road from the ALFED offices in Northamptonshire, Tyrolit combines the strengths of family values with a global vision and over a century of individual corporate and technological experience.

When using cutting and grinding products designed for use on steel & stainless steel, problems can arise, due to the grain structure of the product this can reduce the effectiveness and product lifetime. With the Tyrolit aluminium range, these products have been specifically developed for use on aluminium or non-ferrous material to allow increased productivity, enhance performance, reduce work time and improve product lifetime.

"There are not really any products of this kind that are designed solely for use with aluminium," explains Steve Darwin, National Key Account Manager.

"Our aluminium product range helps put a stop to any clogging, which can be a big issue with aluminium when cutting or grinding. The products are also designed to prevent cross-contamination across stainless steel and aluminium. By having the same branding and being easily recognisable in an orange box, this makes the products very distinctive."

COMING TO A SITE NEAR YOU

With Tyrolit seeing a growing demand for its products and services, one of the most recent endeavours involves the introduction of a new showcase van to its fleet. This mobile unit serves as a dynamic platform for on-site demonstrations of cutting and grinding processes, bringing Tyrolit's expertise directly to companies' doorsteps.

"Seeing is most definitely believing," continues Steve. "By being able to offer on-site demonstrations with the products

and examples in the van, it helps people to understand a lot better and be able to see how the products would truly benefit their operations."

By offering these personalised demonstrations, Tyrolit is not only able to enable its customers to experience the efficiency of the tools first-hand, but also provide valuable insights and recommendations tailored to unique requirements.

Keep following the ALFED website and socials for more information on Tyrolit's offerings, to find out more about dedicated tooling training services, and when the van might be in a location near you!

T : 01788 823 738

E : gbmarketing@tyrolit.com

W : www.tyrolit.co.uk



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Join us on Thursday 6th June



Sustainability Strategy Day

Why attend?

- Engaging Discussions
- Showcasing Strategic Technologies
- Areas for Investment & Development
- Regulatory Insights
- Sustainability Case Studies

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