

ALUMINIUM NEWS

THE VOICE OF THE UK ALUMINIUM INDUSTRY

ISSUE 14 SEPTEMBER 2022



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Members, Suppliers
& Knowledge Partners

Cover image courtesy of Aluminium extrusions after powder-coating at Milwood Group's production facility in Rochester, Kent. Manufacturers of aluminium verandas and canopies, Milwood Group are a leading supplier to the UK's outdoor living market.

DIARY DATES

SEPTEMBER

- 13 • Aluminium Light - Module 2
- 14-15 • Metals Expo, NEC Bham
- 20 • Aluminium Light - Module 3
- 21 • ALFED HS&E Support Group
- 21 • ALFED Recycling Sector Group
- 27-28 • World of Aluminium
- 27-29 • Aluminium Dusseldorf
- 29 • ALFED Extrusion Sector Group

OCTOBER

- 4 • Aluminium Light - Module 4
- 5 • ALFED Finishing Sector Group
- 11 • Aluminium Light - Module 5
- 12-13 • Aluminium Casting
- 12-13 • Aluminium for Engineers (Day1-2)
- 18 • Aluminium Light - Module 6
- 25 • Aluminium Light - Module 7
- 26-27 • Aluminium for Engineers (Day 3-4)

NOVEMBER

- 1 • Aluminium Light - Module 8
- 2-3 • Advanced Engineering, NEC Bham
- 2 • LinkedIn masterclass
- 8 • Aluminium Light - Module 9
- 10 • ALFED Annual Dinner & Business Briefing, De Vere Tortworth Court
- 15 • Aluminium Light - Module 10
- 30 • ALFED Extrusion Sector Group
- 30 • ALFED Recycling Sector Group

DECEMBER

- 1 • ALFED HS&E Support Group
- 7 • President's Dinner
- 8 • ALFED Board Meeting

KEY

- ALFED Members meeting
- Training course/webinar
- Event - open to all

FOR MORE INFORMATION PLEASE VISIT:

EVENTS:

www.alfed.org.uk/aluminium-federation-events/

TRAINING:

www.alfed.org.uk/alfed-training/training-with-alfed/#ourcourses

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THE VOICE OF THE UK ALUMINIUM INDUSTRY – DRIVING A SUSTAINABLE FUTURE

WHY JOIN THE ALUMINIUM FEDERATION

Whatever your company size or speciality within the industry, we help you access the technical expertise, market insight, business support and government influence you need to boost your competitiveness.

MAKE THE MOST OF YOUR MEMBERSHIP

As a member of the Aluminium Federation, you benefit from a range of services that help you develop your business, workforce and supply chain.

HERE ARE SOME OF THE MANY BENEFITS YOU GET AS PART OF YOUR MEMBERSHIP

- Advocacy and Lobbying
- Events
- Technical Support
- Market Insight
- News
- Health and Safety
- Consultancy
- Training, Skills, Education and Apprenticeships

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HOW ALFED MEMBERSHIP
CAN HELP YOUR BUSINESS**

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UK METALS EXPO, THE MUST-ATTEND SHOW THIS SEPTEMBER

UK Metals Expo (www.ukmetalsexpo.com) is the NEW event that brings together the entire metals supply chain on the 14 and 15 September 2022 at the NEC in Birmingham.

The expo will be the first time the whole industry is brought together under one roof from primary metal manufacture, supply chain management, processing metals, fabrication, surface coatings and recycling with industry experts, leading vendors, engineers, and manufacturers.

"Raw materials and skills shortage, price inflation, energy crisis, Covid recovery and post-Brexit trade have created an imperfect storm. UK Metals Expo could not come at a better time", said Lord Redesdale, UK Metals Expo Conference Chair.

How does an attendee benefit from taking time out of the office to visit?

- strengthen new and existing industry relationships
- learn new skills and technologies
- meet suppliers
- listen to peers with similar challenges

In this post-Covid age of many working from home, this is a massive opportunity to reconnect and stay connected with our industry.

The event includes a FREE-to-attend exhibition and conference providing a 2-day comprehensive programme packed with products and services, business networking, industry insights, design inspirations, best practices, and innovative solutions.

During two days, UK Metals Expo will be the UK's largest metals marketplace.

Raw material supply challenges and supply chain disruptions have caused serious concerns over the past few years for many industrial sectors. Don't miss out on this unique opportunity to source new suppliers, review stocks and mitigate risks in your supply chain.

A speaker programme across four themed theatres to tackle main industry key challenges.

The 2-day speaker programme will deliver over 40 hours of expert intelligence, case

studies, best practices and technology to inspire and assist next-level investment and operational strategies for end-users and companies across the entire metals ecosystem.

1. Skills and Training
2. Circular Economy, Sustainability & Recycling
3. R&D, Technology & Innovation
4. Supply Chain, Trade & Policy

UK Metals Expo fosters industry-wide collaboration and partnerships to move towards more sustainable supply chains.

Speakers include:

- Nadine Bloxsome, Membership and Sustainability Manager, ALFED
- Alan Banks - UK Lightweight Innovations Manager - Ford Motor Company
- Enrique Cornejo - Head of Industrial Carbon Capture Supply Chains – BEIS
- John O'Maoileoin - Group Global Sustainability Director - CANPACK Group
- Neil Pennell - Head of Design Innovation and Property Solutions - Landsec

- Philippa Oldham - Stakeholder Engagement Director - Advanced Propulsion Centre
- Roger Morton - Managing Director for Technology and Innovation - EMR
- Sam Jones - Head of Climate & Sustainability - Coca-Cola Europacific Partners GB
- Shamus Donovan - Head of Sustainability & Environment - Speira
- Stephen Murden - Head of Extrusion UK Sales - Hydro Aluminium UK Ltd
- Tony Graham - Chair - OCEA Shipbuilding UK Ltd
- Vivek Sirohi - Vice President - Deodorants R&D – Unilever
- And many more

To get your free pass, the exhibitor list and the full agenda, visit

www.ukmetalsexpo.com



14 - 15 September 2022 ▼ NEC

The only event that brings together the entire metals supply chain



THE ALUMINIUM FEDERATION, 1962-2022: THE VOICE OF THE UK ALUMINIUM INDUSTRY

Over the course of 60 years, the Aluminium Federation has emerged as the voice of the UK aluminium industry. The Aluminium Federation (ALFED) now represents an industry that directly employs 39,000 and is worth £2.9bn in GVA to the UK economy (with a further spill-over to £7.4bn and 104,000 jobs).

On ALFED's diamond anniversary, aluminium and energy historians Professor Andrew Perchard, Professor Niall MacKenzie and Dr Duncan Connors tell the story of how the Federation has become the leading voice representing UK aluminium against the backdrop of profound changes in the global aluminium industry and shifts in the international economy and world politics.

Building upon the technical expertise of its two predecessors, the Aluminium Development Association and the Aluminium Industry Council, ALFED has evolved since its formation to develop its capabilities in networking, consultancy, technical expertise, training/education, and above all in advocating for and lobbying on behalf of the industry. ALFED's success and visibility in these areas has made it the recognisable voice of UK aluminium.

ALFED's ongoing commitment to cooperation and partnership building has been critical to that success and its ongoing growth in membership covering all aspects of the industry from primary

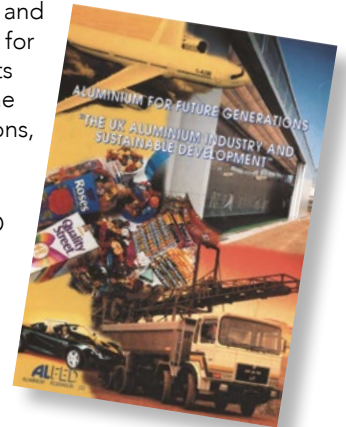
producers, extruders, finishers, recyclers, secondary producers through to distributors. It is also what has recommended it to government and to associations around the world.

ALFED is using those capabilities and that profile to promote the future for UK aluminium and demonstrate its commitment and leadership to the environment and future generations, building upon the industry's innovation.

To learn more, contact the ALFED team:

Tel: 0330 236 2800

Email: alfed@alfed.org.uk



• Right: ALFED Annual Report, 1998.

History

The only UK owned aluminium extruder, providing an award-winning service to UK industries for over 30 years.

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ALFED 60TH

ALUMINIUM FEDERATION ANNIVERSARY

JOIN US TO CELEBRATE THE ALUMINIUM FEDERATION DIAMOND ANNIVERSARY AT THE ALFED ANNUAL DINNER AND BUSINESS BRIEFING ON 10TH NOVEMBER 2022.

This annual event is a great opportunity to catch up with industry colleagues and friends. Last year's dinner was sold out; attended by over 250 aluminium industry professionals offering an excellent networking opportunity.

Guest speaker: Kate Humble

Kate grew up next door to a farm in Berkshire where she acquired a love for nature. She has worked on a wide variety of TV programmes. In 1997 she joined the BBC, working first on the long running series 'Animal Hospital' and then joining the 'Holiday Programme', where she was asked to present her first report. She continued working both behind and in front of the camera until in 1999 she completed a lifelong dream and travelled through the Sahara Desert on foot and camel with salt traders. On her return, she continued presenting programmes for the BBC including 'The Essential Guide to Rocks', 'Tomorrow's World', 'Animal Park' and 'Rough Science'. Publishing countless nature and lifestyle books, Kate has established a popular following through her work in the wild over the years.



Venue: The dinner will be held at the at the superb De Vere Tortworth Court. Situated just north of Bristol and easily accessible from the motorway, Tortworth Court is a historic hotel in stunning surroundings – a place where a centuries-old story meets an exceptionally modern experience.

Business Briefing: A programme of industry speakers offering new insights on transformation, innovation and strategy in our current climate.

Timings:

- 11.00** Arrival & Networking, Business Briefing & Lunch
- 18.30** Welcome Reception
- 19:00** Dinner

Dress code: Black tie

Sponsorship opportunities: This event provides a variety of sponsorship opportunities for you to raise your company's profile within the aluminium industry. Sponsorship packages range from £750 to £12,000 to suit your budget: ALFED Dinner and Business Briefing Sponsorship Opportunities - contact Kirsi Lintula at ALFED for any sponsorship enquiries: klintula@alfed.org.uk

Tickets:

- Business Briefing: Free to attend, this event is open to ALFED members and those who are also attending the dinner in the evening: Reserve your place: <https://bit.ly/37ytdOZ>
- Dinner and B&B (single occupancy): £375+vat per person: Reserve your place: <https://bit.ly/317JneU>

Please note: if you would like to reserve a double occupancy room (ie two persons) and two dinner tickets the total cost is £550+vat, this can be booked direct with the ALFED, please email events@alfed.org.uk.

Ticket enquiries: events@alfed.org.uk



SPONSORS OF THIS YEAR'S ANNUAL DINNER AND BUSINESS BRIEFING



NEW MEMBERS

ALCAS METAL

Alcas Metal is an aluminium extruder with a production capacity of 34,000 tonnes per annum. Extruding in its modern integrated facilities built on a 42k square meters area in Turkey, Alcas operates through its offices in the USA, UK, Europe, North Africa and Middle East with an 85% export rate.

As part of their bespoke solutions, they offer die manufacturing, powder coating, anodizing, sublimating, machining and many other services from their facility. Quality being their foremost priority, they are accredited to ISO 9001:2015, IATF 16949:2016, ISO 14001:2015, ISO 45001:2018, Qualanod and Qualicoat.

With over 420 qualified employees in total, they also operate as a supplier, manufacturer and installer of their own wide range of architectural systems under different business divisions.

<https://alcas.com.tr/en/>



SHORT CUT SERVICES

Short Cut Services was established in 1973, originally providing suppliers and users of extruded aluminium with a subcontract service specialising in cutting to short lengths.

Since then they have built on their experience and have extended their range of services, and can now offer full machining options in their machine shop including their vertical machining centres (VMC), pressing & punching as well as vibratory deburring & bead blasting. The fabrication of parts, powder coating and anodising of finished components can also be arranged with local suppliers.

They have capacity to hold stocks of free-issue material for production on a call-off basis, to give customers the advantage of price reductions for larger quantity buying. Deliveries of finished components are made using one of the national carriers or using their own transport on a 3-day basis, however more urgent requirements can be despatched overnight.

<https://www.shortcutservices.co.uk/>



M G METALS

MG Metals is a multi metal stockholder with a dedicated sales team trained in design, production and stockholding.

They hold a large stock inventory which includes aluminium, stainless steel, brass, copper, bronze and mild steel and with this large range they are able to support many industry sectors such as marine, general engineering, precision engineering, construction, architectural, shopfitting, automotive and motorsport to name a few.

MG Metals has gained a strong reputation for the diverse range of aluminium products supplied including the following, all of which are available cut to size.

- Aluminium plate and machined tooling plate
- Aluminium round bar
- Aluminium extrusions
- Aluminium sheet

<http://www.mgmetals.co.uk>



MG METALS

HENKEL

Henkel employs approximately 860 employees in the UK & Ireland across six sites, which include manufacturing, R&D and office facilities.

Henkel's brands and technologies are used in many different applications and industries. Henkel is the name behind many well-known brands such as Loctite, Pritt, Sellotape, UniBond, Schwarzkopf, LIVE, got2be, Bloo, Colour Catcher, Dylon Dyes and Jeyes.

Solutions from Henkel can be found in many objects that are manufactured, which touch our lives every day: cars, books and magazines, computers, aircraft, refrigerators, cell phones, furniture, textiles, packaging, and many more.

<https://www.henkel.co.uk/>



KNOWLEDGE PARTNER

COUNCIL FOR ALUMINIUM IN BUILDING (CAB)

The Council for Aluminium in Building members include consultants, fabricators, installers, systems companies and many specialist product supply and manufacturing companies.

CAB has become the largest UK Aluminium in building trade association with over 140 members across the supply chain. Throughout its history CAB has continued to expand its services to members. It provides high quality technical information and guidance on regulations, standards and best practice. The Association is also highly proactive in a number of aluminium and sustainability initiatives in the UK and internationally and is involved in developing and delivering a series of key training initiatives including the CAB Skills Card.

<https://c-a-b.org.uk/>



Council for Aluminium
in Building

WHY JOIN

THE ALUMINIUM FEDERATION

THE VOICE OF THE UK ALUMINIUM INDUSTRY

Whatever your company size or speciality within the industry, we help you access the technical expertise, market insight, business support and government influence you need to boost your competitiveness.

We offer different levels of membership based on your business size – so it's both affordable and valuable.

Contact us to discuss how **ALFED** membership can help your business.

t: 0330 236 2800
e: info@alfed.org.uk
w: alfed.org.uk

QUALICOAT CONFERENCE SUCCESS

Held in June, QUALICOAT UK & Ireland's conference at the Building Centre in London, 'Future Proofing Facades', has been hailed a success by all who attended. The event concentrated on aluminium in construction as a sustainable fenestration material and, in particular, how powder coating has advanced over the last few years to meet specifiers expectations.

The conference was opened by Angus Mackle, Chair of the QUALICOAT UK & Ireland Association, who welcomed speakers and delegates to the day's proceedings.

First speaker, Ivo Vermeeren, President of QUALICOAT, based in Zurich, offered an overview of how the Association has grown into a global architectural specification for powder coating, resulting in a worldwide, recognised quality label for finishing. Today the Association is fully accredited and offers a 'Seaside' class of powder coating as well as QUALIDECO which offers realistic finishes replicating such

materials as wood. The latest addition to the specification options is QUALICOAT 3.0 which is a minimum recommendation for the quality of extruded aluminium, especially if it comprises of recycled content.

Read more:

<https://alfed.org.uk/qualicoat-conference-success/>



R&D TAX WEBINAR 20 SEPTEMBER

Join our the latest R & D Tax webinar where the Ernst & Young will be discussing the latest legislative updates on the Research and Development Tax Credit Scheme and how this will apply to ALFED members.

More: <https://alfed.org.uk/eb-events/rd-tax-webinar/>

FREE TO ATTEND

SUSTAINABLE BREWERY SMALL BEER LAUNCHES THREE OF ITS BEERS IN CANS

Small Beer, the London brewery that specialises in producing lower alcohol beers, has launched three of its core beers into 330ml aluminium cans, extending its original line-up of bottles and draught beers.

As the first brewery in London to achieve B Corp certification, which recognises business as a force for good, the company believes there are now more environmental reasons to start packaging its beers in cans as well as bottles.

"Today's bottle and can filling technologies mean that both offer

exceptional quality and each lends itself better to certain occasions," says Felix James, Co-Founder of Small Beer in Bermondsey, South London. "Between production and consumption, cans are more environmentally friendly than bottles on virtually every front."

"As the UK recycling rate continues to improve and the growth in aluminium demand settles, we'll hopefully reach a stage when recycled aluminium stock outweighs demand, at which point the argument will likely swing towards Small Beer cans," he says.

<https://theoriginalsmallbeer.com/>



ALFED APPOINTS A NEW MEMBERSHIP AND SUSTAINABILITY MANAGER

The Aluminium Federation (ALFED) is pleased to announce that Nadine Blossome will join the organisation as Membership and Sustainability Manager from 1st September 2022.

This newly created role will combine two key areas for development within ALFED.

While the primary focus will be on recruiting new members and supporting existing ones, one area where ALFED is keen to offer more value to partners and members is through sustainability initiatives.

Aluminium is ideally positioned to help UK industry as it moves towards more sustainable supply chains and this role will therefore also focus on outlining ALFED's Sustainability Strategy and adhere to the 2050 Roadmap, while working with members on programmes which directly impact the future of a circular economy.



• **Nadine Blossome, Membership and Sustainability Manager, ALFED**

Nadine brings more than a decade of aluminium industry knowledge to the role, as she has previously held the position of Editor and Content Director of Aluminium International Today.

More recently, Nadine developed and launched the Sustainable Industrial Manufacturing event series, which is designed to unite hard to abate sectors in a collaborative approach to reaching Net Zero Targets. This is the first time any such event has encouraged cross-networking between heavy industries to share sustainable solutions.

Nadine has also been responsible for developing dedicated platforms for representatives from across the aluminium value chain to meet and discuss implementing sustainable technologies, share case studies and open business opportunities, along with working across industry to aid the implementation and promotion of sustainability programmes, guidelines and frameworks for industry specific standards.



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R&D ON GRANTS 21 SEPTEMBER

Ernst & Young will explore the latest funding round of the Industrial Energy Transformation Fund as well as introducing the Industrial Energy Efficiency Accelerator and how this can apply to ALFED Members.

More: <https://alfed.org.uk/eb-events/rd-on-grants-webinar/>

FREE TO ATTEND



LONG TERM INVESTMENT PAYS OFF AS WILLIAM KING SECURES MAJOR JAGUAR LAND ROVER QUALITY AWARD

One of the UK's leading metals service centres is targeting further growth after it secured one of the automotive sector's most demanding quality accreditations.

William King Ltd, which specialises in high-tensile steel, aluminium, light gauge processing, electrical steels and niche metal coatings, received recently the Jaguar Land Rover JLRQ Award in front of 150 staff at its Atlas Centre facility in West Bromwich.

Andrew McClure, Global Supplier Technical Assistance Director at the global car maker, made the presentation in recognition of the company's outstanding performance over the past year where it has achieved world class 'right first time' and 'on time in full' delivery scores.

It marks the culmination of a £12m investment drive by the firm over the last 5 years that has seen it introduce a new press blanking line, slitting facility and a state-of-the-art stacker, helping it take on new work and create and safeguard more than 50 jobs.

"We have been working towards the JLRQ standard for some time, overcoming the additional challenges of Covid-19 to demonstrate consistent quality, cost and on-time delivery," explained Rachel Graville, who is the fourth generation Managing Director of family-owned William King.

"This has been a real team effort. It's a fantastic achievement by my colleagues, who have been superbly led in the journey by our Operations Manager Justin Mansell."

She went on to add: "Quality has always been central to the way we operate, so

a lot of the building blocks we needed for the Award were already there, we just had to focus a little more on standardising processes, implementing a clearer continuous improvement strategy, and bolstering training for all staff.

"Not only have we delivered world class performance, we have also done so against the positive backdrop of a rising order book with Jaguar Land Rover, whom we now supply both in the UK and Slovakia."

Nicola Richards, MP West Bromwich East, noted: "Receiving the Jaguar Land Rover Quality award is a wonderful achievement by William King. Like so many of our fantastic businesses in West Bromwich, the company has had to overcome challenges, such as the Covid-19 pandemic, over the last couple of years.

"Winning this award and being recognised for their outstanding quality and service by an organisation such as Jaguar Land Rover is a credit to its fantastic local workforce and management."

William King, which operates four technically advanced facilities in West Bromwich, Walsall, Washington in the North East and in the Czech Republic, adds value to supply chains by supply chain management, processing and just-in-time delivery of metals.

The company currently works with several high-profile customers across the automotive, domestic appliance, metal packaging and general industry

sectors, with the recent acquisition of Firststeel giving it the capability to provide specialist coated metals.

This enlarged offering is already paying dividends, opening up new opportunities as the business aims to build on a growing order book that will see it hit over £150m turnover in 2022.

Rachel concluded: "Making cars lighter is a major driver in the automotive sector and our recent investments in aluminium and high-tensile steel processing support the OEMs in their goal to reduce weight.

"This has seen us nominated and recently start work on Jaguar Land Rover's two latest new model introductions, and we are really proud as an organisation to be supplying into these cars."

William King currently has ten current vacancies, ranging from machine operators to apprenticeships in die maintenance and quality.

For further information, please visit www.williamking.co.uk



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ACHIEVE YOUR ENERGY AND CARBON REDUCTION GOALS WITH ZEN ZERO

Organisations can no longer ignore their responsibility to act on what could possibly be the biggest threat humanity has ever faced. As a minimum, it is undoubtedly the single biggest challenge facing our generation. Tackling climate change is a truly global challenge, but everyone has a role to play and can make a difference, no matter how small or large.

For the aluminium industry, the pressure of reaching net zero adds to many other challenges that are putting a strain on the sector. Rising energy bills continue to take over annual budgets, with increases reaching 300% or more (<https://bit.ly/3OD2lgE>). And with the aluminium industry being a vast energy consumer, organisations have no option but to seek ways to mitigate costs.

Net zero as a route to protecting your budget

Investing in renewable energy technologies and energy efficiency measures can generate revenue, keep energy costs under control, and accelerate net zero goals. However, doing this effectively requires the right people, knowledge and resources and a strategic achievable plan. Zenergi's Zen Zero three-step framework is a proven approach that will deliver sustained benefits across your organisation...

Step 1: Measure

Creating a strategic outline of your facility's energy efficiency objectives is critical to the success of what will follow and will act as the blueprint of your long-term plans. However, this needs to be backed up by the relevant data, to fully understand your organisations' current energy usage.

Step 2: Prepare

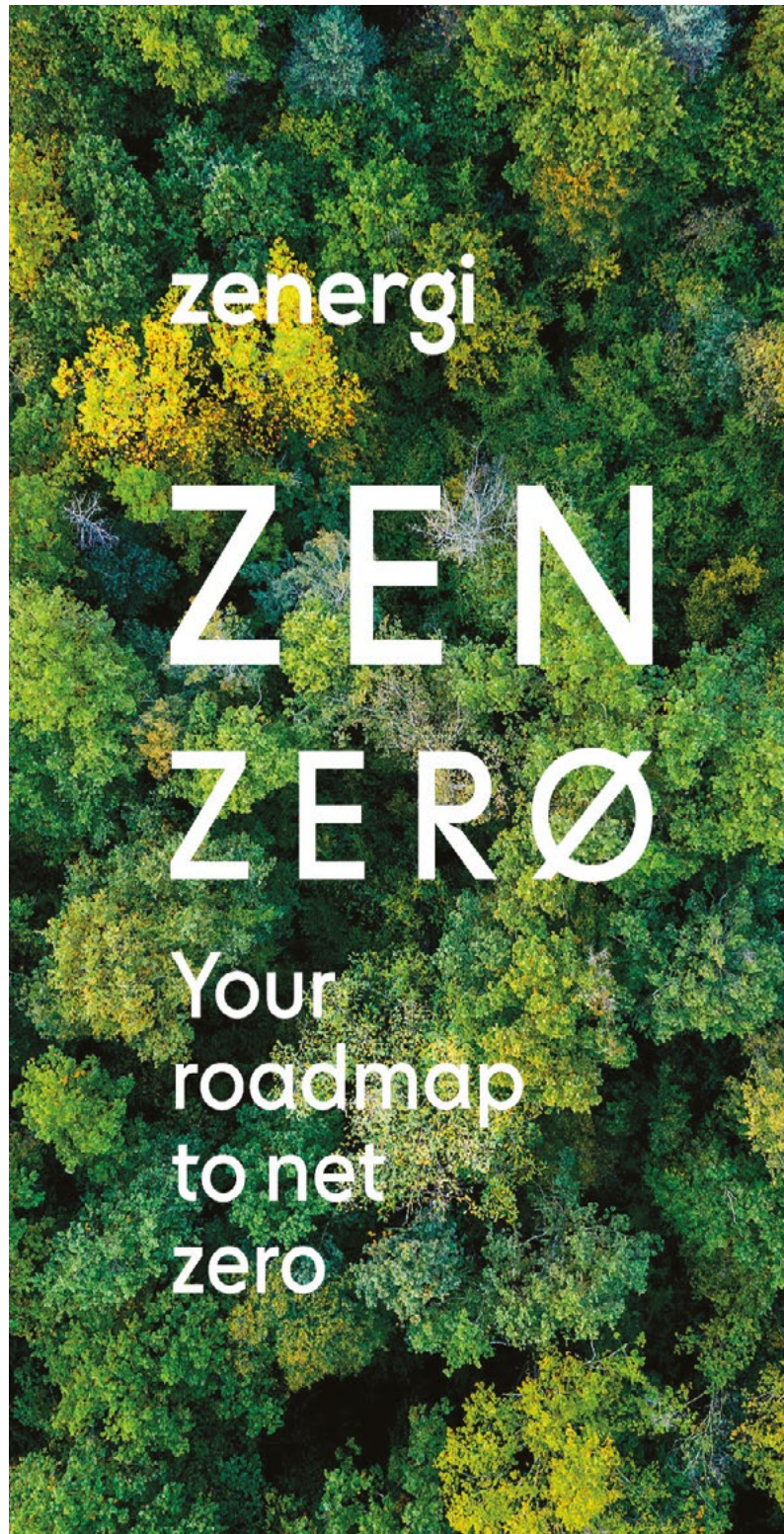
During the preparation phase, further data collection is needed. However, this needs to be quality checked to ensure any data gaps or inconsistencies are closed. A site audit will offer detailed insights, recommendations, and industry benchmarking to establish where you sit relative to your peers. This aims to define a timeline and strategy for your net zero journey.

Step 3: Deliver

Getting on track to net zero is no longer optional, and with the growing pressures facing the aluminium sector, it can be a difficult task to manage and deliver. Seeking support with your energy efficiency goals can leave more time to focus on other vital priorities.

Zen Zero

If it hasn't already, your organisation's journey to net zero can start today and Zenergi can support your organisation every step of the way. We pride ourselves on delivering reliable and practical advice, which is then underpinned by credible solutions with clearly identifiable benefits. Put simply, not only does this mean we can help you get started by creating a baseline and setting a net zero target, but we can also work with you to define and achieve the roadmap that meets your objectives.



For more information visit www.zenergi.co.uk/our-services/zen-zero or call 023 8028 6300.

zenergi

GOVERNMENT RESPONSE TO BUILDING SAFETY CONSULTATION RESULTS IN MAJOR CHANGES



Aluminium has increasingly been recognised as an ideal material for use in construction to resolve difficulties faced with evolving regulations and legislation. Following the Grenfell tragedy, a move towards non-combustible materials in external walls saw great upheaval as specifiers and manufacturers adapted to the new requirements. We spoke to Richard Izzard, managing director of aluminium decking manufacturer AliDeck, about some of the latest changes to Approved Document B.

Following extensive review, the Government has responded to a 2020 consultation reviewing the ban on the use of combustible materials in the external wall systems of buildings.

There will be several major changes to the Building Regulations and Approved Document B as a result and these will significantly impact how many within the construction industry operate.

Following the Grenfell tower tragedy, the UK Government banned combustible materials in external wall systems of buildings above 18m in height. A subsequent amendment in 2019 was made to include balconies within the definition of specified attachments to the external walls, bringing them within scope of the ban.

Part of the recent consultation was on whether the ban on combustible materials should be extended to buildings of 11m in height. Most respondents opposed this and in their response the Government agreed, retaining the blanket ban on combustible materials on buildings 18m and higher.

However, new guidance for external walls and balconies for residential buildings between 11m and 18m in height will be introduced in England on 1 December 2022 through an amendment to Approved Document B.

The most significant change is that balconies on buildings between 11m and 18m in height must now be constructed from non-combustible materials that achieve A1 or A2-s1, d0. This nuanced approach reflects the specific risk of spread of fire posed by balconies. It will pose challenges for building designers as they must now ensure to specify only non-combustible materials to these wall elements in mid-rise buildings.

Amongst the other interesting detail in the amendment is the exemption of A1fl and A2fl-s1 rated balcony decking from the requirement for A2-s1, d0 fire rating, but only if "the entire layer has an impermeate substrate under it". The flooring-specific test that results in the A1fl or A2fl-s1 ratings does not test for flaming droplets, hence the new requirement for sealed balcony undersides to permit the use of flooring material that only carries that rating.

An eagerly anticipated outcome of the consultation was clarity regarding the use of laminated glass in balcony construction. Laminated glass on balconies has caused difficulty for the industry since the 2018 ban, as the A2-s1, d0 requirement has not been able to be met due to the combustible interlayer used in laminated glass.

The Government states in its response that further research is underway and that until the evidence is gathered for an informed decision, laminated glass will continue to require A2-s1 d0 fire rating for use in balconies.

Richard Izzard, AliDeck managing director, said "Even though laminated glass is permitted in windows, the ban for balconies is unambiguous and balustrade and balcony manufacturers will continue to be limited by this. The new requirements in Approved Document B for balconies on buildings between 11m and 18m in height are also significant and will reshape the way buildings are designed."

An overview of these major changes to Building Regulations and Approved Document B are available on the AliDeck website: <https://www.alideck.co.uk/government-consultation-outcome-review-ban-combustible-materials-external-walls-buildings/>

"DIAMONDYZE"- CERAMIC ANODISING FOR ALUMINIUM PRECISION COMPONENTS

By Peter Carter, MD, Camcoat Performance Coatings Ltd

History of anodising

Anodising aluminium has been around for nearly one hundred years. There are three basic types for specific applications but each has a downside either in terms of hardness, wear or corrosion resistance, choice of colour or component dimension growth.

Type I - Chromic Acid Anodise has a minimum thickness of 18 microns giving excellent corrosion resistance and is used mainly on products that must withstand continuous outdoor exposure.

Type II - Sulphuric Acid Anodise - is a thinner coating at 10 microns minimum and is therefore restricted to applications where outdoor exposure is not an issue or where the item is cleaned regularly.

Type III - Hard Anodise or Hardcoat. is a thicker coating at min 25 microns that gives exceptional durability for use on applications where corrosion and wear are key factors.

A new category – Type IV

Now there is a Type IV which overcomes all the downsides. It goes under the trade name of "Diamondyze" and is applied exclusively in the UK by Camcoat Performance Coatings Ltd.

With equal or better hardness, smoothness and wear resistance compared to hard anodising Diamondyze is applied in such a way that the dimensional growth of the item is practically zero. This means aluminium components can be machined to final specifications and even threaded without the need for any post anodising remachining. When it comes to threads the low friction of the smooth Diamondyze surface actually gives a freer fit than with bare metal.

For many aluminium precision components the colour black is fine. However there are applications where colour coding is needed in addition to all the other benefits of Diamondyze. Medical equipment where different and often corrosive gases are used is a good example.

History of "Diamondyze" anodising

Diamondyze was developed by Dale Hupe of Hupe Manufacturing, an anodising company in Canada and Leonard Warren, an American ceramic coating specialist.

Tech Line Coatings Inc. in the USA, a leading manufacturer of polymer ceramics for a number of years and at that time owned by Leonard Warren, was licenced to manufacture and market Diamondyze. The basic concept is that by altering the usual anodising procedure parameters micro ceramic materials are introduced into the pores of the base metal during the anodising process. This combination of ceramic and aluminium oxide within the base metal gives the unique surface properties of Diamondyze.

As the European Agent for Tech Line Coatings Inc. I went over to watch the installation of a Diamondyze anodising plant in the USA. The first parts off the line impressed me so much that I established a separate but carbon copy facility in the UK, partly funded by a grant from the NAA (Northern Automotive Alliance). After some months of perfecting our application of the process Diamondyze was introduced into the UK market with custom soon resulting from manufacturers of veterinary equipment, top level camera parts, high speed motors, brake and suspension components and similar high precision parts.

What metals can be Diamondyzed?

Typical to any of the anodising processes aluminium is the prime candidate metal and most grades can be treated. The resulting properties of the surface finish and the nature of our production facility mean that the target applications are smaller precision components rather than large architectural structures. The cost is much the same as Type III hard anodising but with the advantages mentioned.

With the growing LCV and energy conservation markets we envisage new applications such as Diamondyzed pistons, with or without our existing piston coatings, for alternative fuel ICEs, substituting Diamondyzed aluminium components for steel in automotive and marine applications (passed a 8,000hr salt spray test) in the quest for lightweighting and laboratory equipment.

If you have or know of a product that would benefit from the advantages of the Diamondyze ceramic anodising process and so enhance the use of aluminium please contact Camcoat through www.camcoat.com.



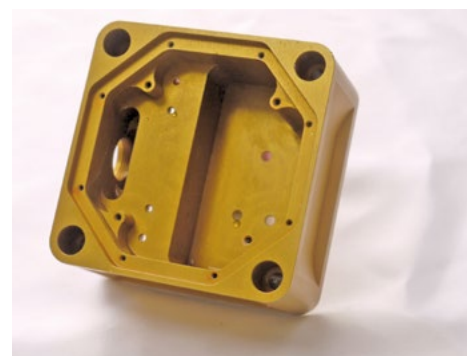
• Diamondyzed + coated piston after coating top with ceramic gold coat and skirt with lube



• Diamondyze pistons (clear and coated) and gear sprockets (blue and black)



• Diamondyze Suspension parts (gold)



• Machined motor body (gold)



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BIGGER INTO
ALUMINIUM**



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ALUTRADE LTD RECOVERS 99% PURE ALUMINIUM THANKS TO TOMRA'S SOPHISTICATED NEW X-TRACT™ UNIT

Alutrade, the UK's largest independent aluminium recycling company and extrusion specialist, is the first company in the world to reap the benefits of the sophisticated new sensor-based sorting solution. The new X-TRACT™, TOMRA's most advanced x-ray metals sorting unit, has enabled Alutrade to achieve 99% pure aluminium for use in secondary aluminium production.

Alutrade, the UK's largest independent aluminium recycling company and extrusion specialist, is the first company in the world to reap the benefits of the sophisticated new sensor-based sorting solution. The new X-TRACT™, TOMRA's most advanced x-ray metals sorting unit, has enabled Alutrade to achieve 99% pure aluminium for use in secondary aluminium production.

The new X-TRACT™ unit was installed in March 2021 at Alutrade's Oldbury recycling plant in Birmingham which processes 42,000 tonnes of waste annually. The plant's infeed material comprises metal extrusions from different types of post-consumer construction waste, such as windows and doors, as well as aluminium cans.

All infeed material is initially pre-shredded and separated using magnets and eddy current separators. A combination of TOMRA sensor-based sorting units is then used to process, sort and recover the target fraction of aluminium. Two earlier edition TOMRA X-TRACT™ units are programmed to capture a larger aluminium fraction of >30mm and the new machine targets a smaller 10-30mm aluminium fraction, removing any heavy metal content from the aluminium. Both the earlier and new edition X-TRACT™ units sort metals based on the difference in atomic density.

Andrew Powell, Director at Alutrade Ltd, explains: "Over the past five years, we have worked closely with TOMRA and our main customer, and have undertaken a lot of research to achieve this milestone of recovering an aluminium end fraction that meets the exceptionally high purity levels needed to go straight into the remelt process. The smaller 10-30mm fraction captured by the new machine is 99% pure aluminium which means we can sell it on at a much higher price to our customers for use in the production of new aluminium products. What's more, the new version of X-TRACT™ has opened up new international market opportunities for Alutrade as we can now source different infeed material, as well as sell the ejected heavy metal products."

The new generation X-TRACT™ unit boasts a number of new innovative features, including much faster sorting (up to 3.8 meters per second) and an increased capacity per metre width. A new high-acutance XRT sensor ensures sharper detection and shorter integration times for increased throughput, while a 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.

Alutrade's X-TRACT™ unit is connected to TOMRA Insight, TOMRA's secure, nearly real-time and on-demand cloud-based data monitoring platform. The platform enables customers to turn their sorters into connected devices and to transform sorting from an operational process into a strategic management tool. Generating high value data, TOMRA Insight helps to maximise plant throughput, boost sorting performance and optimise output quality.

Andrew concludes: "The new X-TRACT™ has enabled us to close the loop on the recycling process as much as possible, converting aluminium back into aluminium for use in high-grade aluminium products. With low operational costs, improved safety and superior sorting capabilities, the new X-TRACT™ definitely stands out in terms of the aluminium recycling solutions available in the global metals recycling market."

For further information about TOMRA, visit www.tomra.com



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DOES ALUMINIUM DECKING GET HOT?

We spoke to Richard Izzard, managing director of aluminium decking manufacturer AliDeck, to find out more about recent testing they performed to answer their most commonly heard question.

Following the Grenfell Tower fire, building regulations were amended to ban the use of combustible materials in the external walls of buildings higher than 18m. Lenders also became increasingly risk averse and, after strictly interpreting Government building safety advice, refused to lend against properties without an EWS1 certificate showing there was no likelihood of future fire-safety remediation requirements.

As aluminium has become increasingly recognised as an ideal material for architectural metalwork applications and a solution for the building safety crisis, industry stakeholders and end-users have encountered aluminium proposed for unexpected places, such as in flooring. The inherent unfamiliarity many have with aluminium has been a challenge that manufacturers have needed to overcome.

Richard Izzard, managing director of AliDeck, said "We have had to take our customers on a journey to understand the benefits of aluminium but it's not been difficult as it is such a versatile material."

While overcoming objections regarding strength, aesthetics, weight, cost, and so on, were relatively straightforward for AliDeck, there remained a persistent question; does aluminium decking get hot?

"This was something we'd hear from customers very often," explained Richard. "We'd discuss the excellent thermal

conductivity of aluminium but we did struggle to really convince people sometimes. To put this to bed once and for all, we decided that we needed to perform practical testing to get some firm data."

Recent months have seen record temperatures across the UK, the highest the UK has ever seen in fact. This created an optimal time to undertake the heat testing at AliDeck's head office in Rochester, Kent.

A simple testing rig was constructed, comprised of two 500mm lengths of aluminium decking, two of timber decking, and two of composite decking. Sited in direct sunlight and with measurements taken throughout, the data collected from each test was revealing.

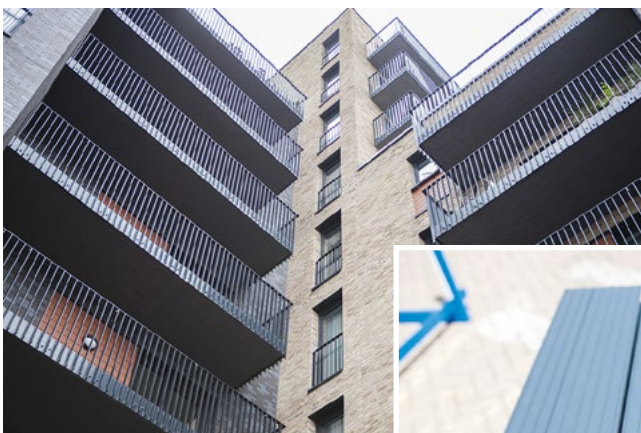
First of all, AliDeck measured the **reflective surface temperature** of each material over 3 hours exposure to sunlight. Using a laser-gun infrared thermometer, the surface of the aluminium decking was

shown to be cooler than both timber and composite decking surfaces, by almost 10°C on average!

In a second test, AliDeck used a high-end temperature profiling device, an Elcometer 215 Oven Data Logger, to record the material core temperature of each sample of decking. The results of this test were much closer and arguably more accurate, with aluminium and composite decking being almost neck-and-neck, recording maximum temperatures of 40.9°C and 39.3°C respectively, while timber decking was only marginally cooler.

The conclusion when considering both sets of results is clear; aluminium decking does not get hot, certainly not significantly more so than more traditional types of decking do.

"It's great to finally bust this myth," concluded Richard. "With actual data now in hand, we can fully reassure our customers that aluminium is the right choice for flooring applications."



POWERING NET ZERO: GRANTS AND INCENTIVES

Following the government publishing its 'Net Zero Strategy' last year, which set out the UK's plans and budgets for meeting net zero emissions by 2050, there have been several new grant funding opportunities made available for UK industry.



If your company is considering investing in a project over the next twelve months that involves reducing energy consumption or carbon emissions, it is worth considering grants and incentives. Incentives are made available to support businesses to accelerate their own transition.

The grants landscape is complex, and planning is key for success. Grant programmes are often competitive – meaning not every project receives funding. A strong project isn't enough to be successful; companies need to make sure they prepare a strong bid to maximise their chances of getting funded, and to avoid wasting valuable time and resources on a submission.

In the UK, there is the Net Zero Innovation Portfolio administered directly by the Department for Business, Energy and Industrial Strategy (BEIS), supporting the 10 point plan for a green industrial revolution, with topics such as advanced carbon capture, usage and storage; direct air capture and greenhouse gas removal; and industrial fuel switching. Additionally, the budget announced £1b yearly funding for Innovate UK (the UK's innovation agency); much of that funding is expected to go towards net zero projects.

Research and development and innovation grants are made available to support projects that are focused on developing new technologies and processes and can cover projects ranging from early-stage research projects to a first of a kind demonstrator.

Aside from R&D and innovation grants, there are also investment grants available, that are focussed on enabling companies to make capital investments, for instance to help them become more energy efficient and/or reduce carbon emissions.

Current schemes:

1) The Industrial Energy Transformation Fund (IETF) supports industrial sites with high energy use to transition to a low carbon future. The scheme supports feasibility studies and deployment projects that aim to help industry cut energy bills by investing in more efficient technologies and reduce emissions by bringing down the costs and risks associated with investing in deep decarbonisation technologies.

Funding is allocated through a competitive process aimed at supporting the highest quality and most transformational bids. The fund is open to a broad range of industrial sectors and will support applicants based in the UK.

Funding will be allocated across three competition strands:

- **Studies:** feasibility and engineering studies to enable businesses to investigate identified energy efficiency and decarbonisation projects prior to making an investment decision
- **Energy Efficiency:** deployment of technologies to reduce industrial energy consumption
- **Deep Decarbonisation:** deployment of technologies to achieve industrial emissions savings

When applying for this type of grant, it is important to consider the counterfactual reference, which is the scenario that would occur without grant. The costs eligible for the funding is the difference between the proposed and the counterfactual investment. It is worth noting that some investments do not have a counterfactual (or rather, a "zero investment" one), such as heat recovery systems, process optimisation equipment, or other technologies with a sole purpose of achieving energy savings.

These are the 28 winners from the IETF Phase 1 (Summer 2020) with an average grant award of £800k (4 within the metals industry). There were a further 44 winners in the subsequent round (Spring 2021) with an average grant award of £1.15 million.

Between 25% and 70% grant funding can be claimed (dependent on project activity and company size). The Autumn round of Phase 2 will launch in October 2022 with a deadline in January 2023.

2) The Low Carbon Manufacturing Challenge Fund supports companies with a manufacturing base in Scotland to develop low carbon products, processes or services. This may be achieved through pure research and development (R&D), capital investment or environmental aid support.

This grant is primarily focused on supporting projects that will help the transition to a low carbon economy.

To be in scope your proposal must demonstrate:

- a new product or service, or introducing new technology that will use less energy, produce less waste, reduce emissions, and use less raw material in its manufacture than the existing alternative
- a new product or service which will use less energy, produce less waste, reduce emissions and use less raw material in its end use than the existing alternative
- new business models based on the principles of the circular economy - for example, through circular supplies, resource recovery, product life extension, use of sharing platforms or delivery of 'product-as-a-service'

The Low Carbon Manufacturing Challenge Fund supports projects over £150k in size. The competition is currently open, with applications being accepted until March 2026.

3) The Innovate UK Smart Grants fund supports game-changing ideas from any sector, that will enable rapid commercialisation and growth. Project consortiums must include an SME to be eligible.

To be in scope your proposal must demonstrate:

- a game-changing, innovative, and disruptive idea that will lead to new products, processes or services
- an idea that is significantly ahead of others in the field, set for rapid commercialisation
- clear potential to positively impact the UK's position, productivity and competitiveness within the global economy

The competition runs 4-5 times a year with a budget of £25 million per round. Between 25% and 70% grant funding can be claimed (dependent on project activity and company size). The current open deadline is the 26th October 2022.

In summary, there are lots of different grants available that can cover different project types at different technological maturity. Carrying out a regular review of upcoming grants can help companies avoid missed opportunities and give ample time to confirm an opportunity and prepare a strong application. EY's Innovation Incentives team can help you consider where grant funding might fit into your projects landscape and how best to access that funding.

For further information please contact James Edgar at Ernst and Young - email James.Edgear@uk.ey.com



PACKAGING UNWRAPPED

Exploring the environmental impacts of global material flows relating to the UK's packaging consumption.

The packaging we use in the UK is made from a range of materials. Each material has its own unique supply chain, with environmental and social impacts at every stage, from the processing of the raw materials to disposing of waste. These impacts are felt not just in the UK, but all over the world.

The study, 'Packaging Unwrapped: exploring the environmental impacts of global material flows relating to the UK's packaging consumption', produced by Tesco and WWF, aims to unravel these complex supply chains and understand the impacts that take place during each stage. Identifying where these happen gives us a fuller picture of the global footprint of UK consumption, and supports the ambition of the Tesco-WWF partnership to "halve the environmental impact of the UK shopping basket."

By understanding the issues related to each material we use, we can take targeted action to minimise the negative impacts and strengthen the sustainability of the materials.

The environmental and social impacts of the UK's packaging consumption extend far beyond our shores. The key to minimising our footprint is to understand what these impacts are and where they are occurring. This study investigates the supply chains of five key materials – **aluminium**, steel, glass, paper and board, and plastic – to identify where the environmental hotspots lie, both in the value chain and geographically.

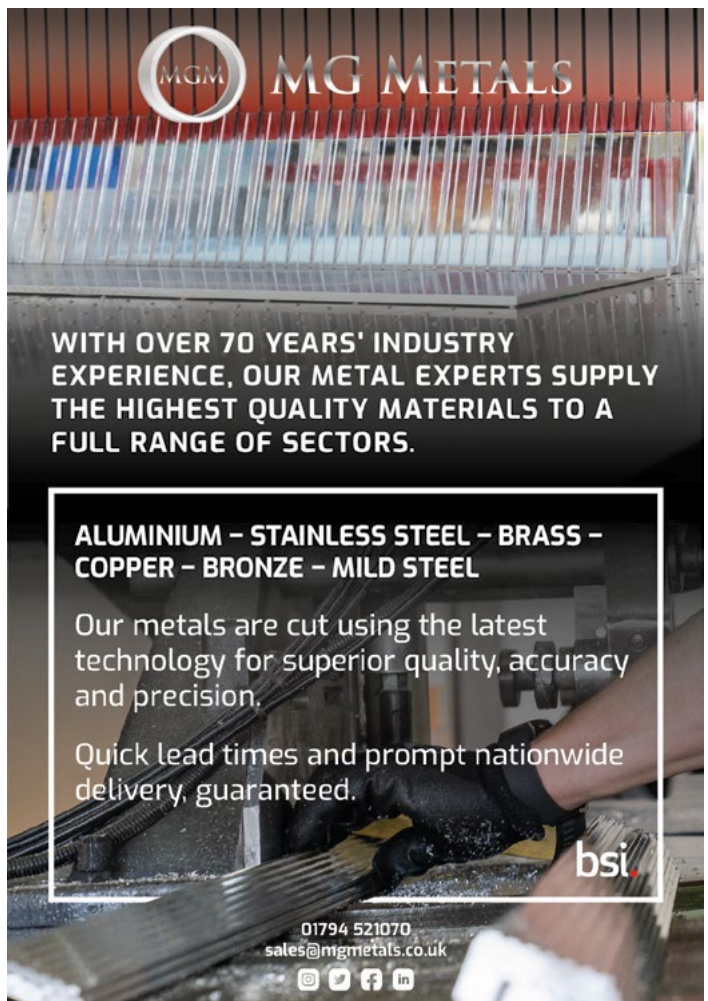
Adopting a circular economy is an essential part of reducing the UK's packaging materials footprint. But circularity primarily focuses on the end-of-life stage, giving less consideration to mitigating life-cycle impacts through the materials supply chain. This study aims to give an overview of the impact of UK consumption of each material on ecosystems and human health, zooming in on the countries where these impacts are most significant. It also aims to highlight areas where there is a lack of transparency in relation to the movement of virgin, recycled and waste packaging.

The study focuses on consumer packaging for products sold by retailers such as supermarkets and by the hospitality sector. Commercial and industrial packaging, such as pallets and drums, is beyond the scope of this research. The findings in this report are also relevant beyond the packaging sector, however, as key resources are often extracted from a limited number of resource-rich countries, meaning other industries may share similar value chains. Importantly, the study does not aim to make comparisons between materials. Materials are not inherently good or bad: each has its own particular uses, strengths and weaknesses. While reducing the amount we use should remain a priority, the UK will continue to need packaging. By understanding the issues related to each material, we can take targeted action to minimise the negative impacts and strengthen the sustainability of the materials we use.

Materials are not inherently good or bad: each has its own particular uses, strengths and weaknesses. By understanding the issues related to each material, we can take targeted action to minimise negative impacts and strengthen sustainability.

Read more: <https://bit.ly/3TIOEYJ>

Source: This research was commissioned by WWF-UK and funded through the WWFUK and Tesco partnership, which aims to halve the environmental impact of the UK shopping basket. This summary report was prepared by WWFUK, Tesco and Eunomia Research & Consulting Ltd and is underpinned by a supporting technical report, prepared solely by Eunomia.



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COST OF LIVING – HOW CAN EMPLOYERS HELP?

Maybe it's the rise in national insurance (NI) contributions. Or, it might be the rocketing energy prices. Perhaps it's the fact that pay settlements are failing to keep up with inflation. Whatever it is, we've all felt the pinch of the cost-of-living crisis. What's worse, it doesn't seem to be going away any time soon.

Of course, the crisis affects businesses too. So, while many employers want to help their workforce, it can be difficult when money is already tight.

In this article we take a look at the full scope of the UK cost of living crisis on businesses and how you can support employees through it.

How bad is it?

It's not good. There is record use of food banks, inflation is at a 40 year high, and real wages are plunging. Next month will see the first cost-of-living payment to millions of UK homes on benefits.

In terms of wages, the National Living Wage is set to hit £10.50 in 2024. However, recent research has suggested that, to truly combat the rising cost of living, the minimum wage should be £15 an hour.

For many employers, that figure probably sets off alarm bells. You aren't obligated to increase your pay rates beyond the national minimum wage. However, what this should do is highlight the scope of the problem the UK is facing.

Some companies have already taken action to face this challenge.

Lidl, for example, announced it would be spending £18 million to boost the wages of 21,000 staff. This includes paying £12.25 per hour for those who work in London. Green & Fortune have also stepped up. They announced that from December 2021, they would pay their staff more than the London living wage. Other companies, such as M&S, have introduced different kinds of support (more on that later).

Businesses are also struggling. Many employers are calling for further support from the government following a difficult few years during the pandemic. With organisations still struggling, what solutions are available to employers other than raising salaries?

How can employers help with the cost of living?

Offering a pay rise

If you can afford it, a cost of living pay rise is the best support you can give. While some businesses have done this, many haven't.

For a lot of employees, the price hikes in bills and essentials aren't being matched by proportionate salary rises.

Pay rates differ depending on a number of factors, including industry and location. Some have felt the crunch more than others. Surprisingly, some low-paying sectors, such as hospitality, have seen a real pay rise. Meanwhile, those businesses that currently have inflation-proof pay growth might soon see their pay gains eroded.

In short, don't take your pay rates for granted. If you want to check yours in line with pay data from your industry, our Reward team can get you the latest figures.

If you want to offer a cost of living pay rise to your lowest paid staff, you should do it in line with the national living wage. Not only that, keep a close eye on pay rates for your sector and the latest in the cost-of-living crisis. This is the only way to ensure your workforce receive the financial support they need to pay their bills.

Ways to help that aren't a cost of living pay rise

Information and communication

Employer support with the cost of living is crucial to staff productivity and wellbeing. If nothing else, maintaining communication with your employees and keeping them informed will help massively.

It sounds simple, but many individuals won't know where to go for financial advice. Pointing them to resources such as the Money Advice Service will be useful. You can go further and provide seminars on money management or provide benefits that'll allow them to stretch their salary.

Offer employees access to impartial guidance that'll allow them to "sense-check" their workplace pension scheme. It might be tempting to reduce contributions to your pension to reduce outgoings. While this is an option, employees should consider the impact this will have on their long-term financial security.

The more in control your employees feel over their finances, the more secure they will be. Danielle Haig, Director at DH Consulting states:

"Psychological, emotional, and behavioural control over our finances is incredibly empowering and can make huge differences and improvements to all domains of our lives as well as our mental and physical health."

Salary Sacrifice schemes

Salary sacrifice schemes are an excellent way to help employees by providing vital benefits and financial support. The main advantage of these schemes? They won't have to worry about how they will pay for it.



A salary sacrifice scheme allows an employee to exchange part of their salary for extra benefits, usually non-cash benefits from the employer. These can include childcare vouchers, a company car, purchasing a bicycle through a cycle to work scheme, and additional pension contributions.

EAP

If you have an Employee Assistance Programme (EAP) in place, an employer could refer the employee to this. An EAP can include mortgage advice, financial planning and debt management as well as other non-financial issues. An employer may wish to consider offering counselling to help manage the emotional challenges that often accompany financial difficulty.

Mental health and money go hand in hand. It's quite easy for a person to develop financial anxiety when they are struggling to pay bills. An EAP can help with the psychological side of this issue whilst also directing the individual to financial support schemes.

Staff benefits

When a worker is struggling to pay the bills, they'll be forced to make difficult decisions regarding where their money goes. In order to pay for the essentials, they may have to sacrifice something that is good for their health.

M&S picked up on this issue and moved to address it. They introduced:

- Free health checks for its employees
- New benefits such as online GP service
- Financial management advice and
- Health check screening

Schemes such as gym memberships and discount codes can encourage employees to maintain a healthy lifestyle. Non-cash benefits such as a company car, childcare vouchers or a cycle to work scheme are also useful. It'll help them pay for services they'd otherwise cut. Health cash plans, like the one introduced by M&S can cover or pay money towards the cost of everyday healthcare too.

Not all companies will have the resources to introduce these types of benefit. But, if you can help a little, it'll help your employees a lot.

Further support options

The cost of living crisis in the UK has caused headaches for employers and employees alike.

With staff struggling to pay bills and facing difficult decisions, it's important you do all you can to support them.

However, keeping your own business profitable during this is tough.

Luckily, Croner are here to support ALFED members with a range of solutions and 24/7 advice. Find the perfect balance in your business to maintain staff and stay successful by calling ALFED for further details. Tel: 0330 236 2800.



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METALS MANUFACTURING PROCESS OPERATIVE

LEVEL 2 APPRENTICESHIP

Partnering with the Aluminium Federation, our Level 2 Metals Manufacturing Process Operative (MMPO) qualification is an established apprenticeship standard developed specifically to meet the needs of the UK Metals Sector.

The programme will provide learners with industry specific knowledge and skills that will help them achieve a rewarding career in manufacturing. This foundation qualification will encourage employees to progress within the organisation and take on greater responsibility.

Duration: 18 months (15 months practical; 3 months end point assessment)

Entry requirements: Entry requirements will be set by the employer.

Functional skills: Apprentices are required to have level 1 English and Maths prior to taking the end-point assessment. Those without, will be given the opportunity to achieve both grades during the practical period of their programme.

The apprentice will achieve the following:

- Science Manufacturing Process Operative Standard – Level 2
- Aluminium Light – CPD Accredited Course
- Maths & English Functional Skills – Level 1



FOR FURTHER INFORMATION: Please contact Kathy Romback, ALFED Training and Education Manager -
Tel: 0121 281 2281 - Email: kromback@alfed.org.uk



TRAINING, EDUCATION & APPRENTICESHIPS UPDATE



TRAINING ACADEMY

BLOODHOUND EDUCATION - INSPIRING FUTURE ENGINEERS WITH FUN, HANDS-ON EXPERIENCES AT OUR GLOUCESTERSHIRE TECHNICAL CENTRE

The Bloodhound Education charity is ready to inspire and welcome the next generation of engineers to its technical centre at Gloucestershire Science & Technology Park.

The centre's dedicated education facilities showcase innovative technologies and give visitors an immersive experience that makes learning engineering relevant to today's challenges. For example, low carbon heating systems are vital to tackling climate change and reaching net zero. Their centre has ground source and solar heating systems installed which visitors will be able to learn about and see in action.

The centre is constantly evolving to deliver on the charity's



mission to inspire a career in engineering. New workshop themes include space, the environment and cleaner transportation technology applications.

Alongside this, visitors can get hands-on with The Aluminium Federation sponsored projects showcasing the properties, advantages and applications of aluminium. These enable the federation to reach a broader audience through family workshops, after school clubs and holiday activities.

Visitors can immerse themselves in fun engineering activities and equipment tailored for home educators and children not able to attend school due to complex medical or special educational needs. During the sessions, we provide parents and children with signposting to on-line Bloodhound projects to take them further on their STEM journey.

The charity has reached over 4,000 potential engineers and their families over the last 12 months, with numbers set to increase as Covid-19 recovery continues.

100% of children said they would like to attend another session.

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TECHNICAL TRAINING WEBINARS

INTRODUCTORY/BEGINNER LEVEL WEBINARS FOR EXISTING STAFF OR NEW STARTERS WHO DON'T HAVE A TECHNICAL BACKGROUND.

Aluminium Light – Module 1

A webinar on aluminium as a strategic metal & a basic introduction for existing staff or new starters who don't have a technical background.

This interactive engaging session will highlight:

- Where aluminium comes from
- The processes used in industry
- Properties and applications of this material that has shaped our world
- Identifies each of the holistic properties of aluminium
- The basis of global demand for aluminium
- Q&A

When: 6 September 2022

Aluminium Production and Global Demand – Module 2

This webinar will highlight:

- Sources of aluminium, how it is refined and produced
- Growth relationship with the availability of electricity
- Low carbon recyclability of aluminium
- What differentiates it from other materials
- Understanding how supply is matching demand
- Q&A

When: 13 September 2022

Wrought Aluminium and Applications webinar – Module 3

This module outlines:

- How aluminium alloys group specifications were developed.
- Focusing on the properties of each alloy specification group, explains their uses and illustrates applications.
- Concluding by dispelling myths on aluminium, fire and health demand
- Q&A

When: 20 September 2022

Heat Treatment of Aluminium – Module 4

This module outlines:

- The difference between non-heat treatable alloys and heat treatable alloys

- How non heat treatable alloys are strain hardened and heat treatable alloys age hardened
- Understanding this module completes the understanding required to correct select alloys for applications
- Q&A

When: 4 October 2022

Elastic and Plastic Behaviour of Metals – Module 5

This module outlines:

- Understanding how metals behave under load, and the applicability of the significant characteristics to product design
- How characteristics are determined/proved by tensile and/or hardness testing
- Explanation of the significance of different test certificates
- Q&A

When: 11 October 2022

Production of Wrought Aluminium – Module 6

This module outlines:

- How plate, slab, shate, sheet and foil are produced and some of their innovative applications
- Introduction to product defects
- Q&A

When: 18 October 2022

Extrusion – Module 7

The super-plasticity of aluminium at moderate temperatures sets aluminium apart from all other metals in its ability to be extruded.

This module outlines:

- The extrusion process
- Exploring its potentials, product designs and applications
- A study of extrusion introduced defects
- Q&A

When: 25 October 2022

Drawing, Shaping and Forming of Aluminium – Module 8

A broad survey of how aluminium is shaped, formed, manipulated, cut, fabricated.

This module outlines:

- How aluminium is joined and/or bonded
- Explaining the potential of emerging hot forming technologies
- Thought provoking technologies for the designers
- Q&A

When: 1 November 2022

Corrosion and Protection of Aluminium – Module 9

This module outlines:

- Explaining what corrosion is and its various mechanisms
- Researches alternative coating and protection methods
- Ending with eye catching examples of coated architecture
- Q&A

When: 8 November 2022

Casting Technologies – Module 10

More correctly liquid aluminium engineering, this module compliments both Modules 3, 7 and 8 by exploring how castings offer alternative manufacturing processes. The module outlines the various techniques and their application to specific product applications.

When: 15 November 2022

Each webinar is approx. 40-50 minutes

Cost:

- ALFED Members £30+vat/person
- Non Members £40+vat/person

For more information or to book a place please use the QR code below or visit:

<https://alfed.org.uk/alfed-training/training-with-alfed/#ourcourses>





TRAINING ACADEMY

TECHNICAL TRAINING COURSES

INTERMEDIATE AND ADVANCED LEVEL TRAINING COURSES

World of Aluminium

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 individuals. This course is aimed at individuals who require a solid basic understanding to confidently engage with the aluminium industry and its products.

The course creates a solid basic understanding of aluminium, aluminium metallurgy, heat treatment and metal forming processes. It assumes no prior knowledge of metallurgy and is specifically tailored to the industry sector.

Technical elements are balanced with insights into the history of aluminium, its growth as the strategic metal of society, its sustainability properties and illustration of products, to create a holistic broad rounded knowledge.

When: 27 & 28 September 2022

Time: 9.30 – 13.00 (2x mornings)

Delivery method:

Live interactive session delivered via online platform

Cost:

- ALFED Members £199+vat per person
- Non Members £299+vat per person

Aluminium for Engineers

An intensive course that creates the foundation and builds up knowledge from basic introduction to metals to the wide application of aluminium. The 'Aluminium for Engineers' syllabus covers metallurgy, specification, heat treatment, wrought processing, joining, testing, corrosion, coating and more.

This course is aimed at metallurgists, designers, manufacturing engineers and companies transitioning into aluminium.

When: 12, 13, 26 & 27 October 2022

Time: 9.30 – 13.00 (4x mornings)

Delivery method:

Live interactive session delivered via online platform

Cost:

- ALFED Members £395+vat per person
- Non Members £495+vat per person

For more information or to book a place please use the QR code or visit:



<https://alfed.org.uk/alfed-training/training-with-alfed/#ourcourses>

Aluminium Extrusion Defects

This webinar assumes no prior knowledge, so illustrates and describes virtually all encountered extrusion defects, and explains their causes and formation mechanism, methodically raising understanding to a technical competent level.

The webinar also describes the different metal flow within the stages of extrusion and effects of lubrication of both direct and indirect extrusion and the benefits/limitations of both processes, explaining issues of control, dimensions and formation during the ongoing extrusion.

The webinar is intended for purchasing, sales, quality and production people who actually extrude or use and/or process extrusions.

When: 20 September 2022

Time: 13.00 - 15.00

Delivery method:

Live interactive session delivered via online platform

Cost:

- ALFED Members £49+vat per person
- Non Members £59+vat per person

WHY TRAIN WITH US?

The Aluminium Federation manages high-quality training for technical and non-technical staff and health & safety. Our programmes help everyone from apprentices and admin staff to experienced engineers and business leaders. And thanks to our partnerships with Catapult centres, universities, other trade bodies and member businesses, you get vital support with upskilling your workforce and fostering a culture of continuous improvement.

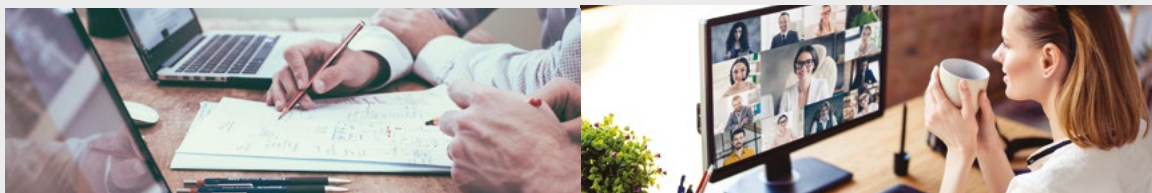
Our courses are specially designed for all levels. With both set programmes and bespoke training available, so you have vital support for your staff as they grow with your company.

**For further information please contact Kathy Romback,
ALFED training and education manager - email kromback@alfed.org.uk**

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TRAINING ACADEMY



MANAGEMENT AND BUSINESS SUPPORT TRAINING

Finance for Non-Finance Managers and Directors

Equipping managers and directors with the knowledge and skills to understand and assess key financial concepts, terminology and reports, the Finance for Non-Finance Managers course will provide delegates with the ability to confidently evaluate the financial position of their organisation.

Helping you to use and understand the financial numbers in your business, this course will provide candidates with the essential skills and knowledge to interpret key financial statements, models, and ratios. Managers will be well placed to ask the right questions and make informed decisions.

This module will give you the confidence to better scrutinise financial reports and challenge finance professionals in a positive and constructive way. Delegates will take away a vital understanding of financial strategy and improve financial planning

You will learn:

- Accounting basics revisited
- The key financial statements
- Analysis of financial statements
- Working capital management
- Concepts of financial management and fiduciary responsibilities
- Operating budgets: processes and techniques
- Capital budgeting

When: 7 & 8 September 2022

Time: 9.30 – 13.00 (2x mornings)

Delivery method:

Live interactive session delivered via online platform

Cost:

- ALFED Members £299+vat per person
- Non Members £399+vat per person

Sales Managers Course

As part of our Sales Manager Course, you'll discover how to become an established mentor and motivator, to allow you to lead from the front. Here you'll benefit from the rewards that come with line managing – from empowering and appropriately allocating your team to championing equality and diversity and shaping the professional development of your team.

What will you learn?

- Understanding the role of the Sales Manager
- How to build a high-performing team
- Motivating the team to perform
- Setting the vision of success
- Assessment of your team
- The key skill of benchmarking
- Developing your training programme
- How sharp is your sales structure?
- Salesforce measurement through the balanced scorecard
- Salesforce communication

When: 19 & 20 October 2022

Time: 9.30 – 13.00 (2x mornings)

Delivery method:

Live interactive session delivered via online platform

Cost:

- ALFED Members £299+vat per person
- Non Members £399+vat per person

For more information or to book a place please use the QR code or visit:



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LinkedIn Masterclass – How to Gain and Retain Customers

LinkedIn is the most powerful marketing tool for B2B in 2022

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And if they're not ready to buy now, they'll be able to see you for as long as you're posting. Ready to come back to you when they are ready to buy.

You will learn:

- How to connect strategically
- Engaging indirectly
- Direct messaging
- Building authority
- Put your company in front of the people who need what you offer
- Generate revenue

When: 2 November 2022

Time: 9.30 – 13.00

Delivery method:

Live interactive session delivered via online platform

Cost:

- £99+vat per person



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SCHEDULE:

Issue 15 will be available on 10th December

For more information please contact:

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