

The transformative impact  
of a sustainable approach  
to waste management.





Front: A high capacity waste to energy plant designed to dispose of general and municipal waste.

The early morning delivery of a primary chamber for a high capacity medical incinerator in the middle east.

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# Welcome to Addfield



MD Derek Carr sharing monthly news with the team at Addfield.

# Introduction

Here at Addfield Environmental Systems Ltd, (AES) we have successfully positioned ourselves to be recognised as one of the world leaders in the design and manufacture of thermal waste treatment incinerators and cremators.

Operating on a global scale from our head office and manufacturing plant in Burntwood, Staffordshire in the very heart of the UK. Since 1982 Addfield Incinerators (Formerly RAS Agriparts) have grown building upon a foundation of quality and sustainability for the simple fact that it makes sense, from a business, ethical and environmental perspective.

Having transformed in the past 43 years from a small business purely supplying the agricultural sector in the UK, to one with a thriving international workforce and installations in 150+ countries servicing many different industries.

As we have grown, so has our responsibility to the greater environment accordingly. We are now working with a global network of suppliers, engineers, distributors and end users. As a result, our environmental impact has become more noticeable.

Achieving this growth through embedding sustainability and innovation throughout our operation. From the very first machine built in 1982 through to those in current production, every one is designed to provide the cleanest solution for waste disposal whilst delivering optimum fuel efficiency and longevity to protect future generations.

In early 2023 we were acquired by Darwin Alternatives helping us to prepare to take the next step in our continued growth.

As a growing business our impact isn't necessarily felt across the entire category of (UNCOP) yet. However we intend to be proactive in our approach and have already set these systems in place to address any situations as they occur.

# Letter from the MD

For the past fifteen years, I have been a part of the management team, before becoming Managing Director in 2021. I have been here at every milestone that we have achieved and I am committed to keeping Addfield the number one solution.

Since our first sustainability report was issued in 2022 Addfield has undergone a dramatic transformation as former owner Steve Lloyd has stepped aside and handed the reins over to one of the UK's leading ethical pension funds with the sale to Darwin Alternatives in early 2023.

This represents a major opportunity for us to take Addfield to the next level and enables us to really focus on our global impact. Following years of continuous growth, we have almost been a victim of our own success.

As the scale of orders has grown, we have endeavoured to keep up and keep ahead of the industry. To maintain our reputation as a global leader, there are innovations that we are

now in the process of implementing to streamline our production line and improve our sustainability.

Having the support of the Darwin group gives us access to a fresh network of opportunities to continue our trajectory. We are investing into our workforce and facilities to keep Addfield the number one manufacturer of thermal waste treatment solutions.

I was there with our first steps into the international market in 2012, and have pushed us forwards globally to the position where we are now (July 2025), installed in over 150 countries and the number keep growing.

I am pleased to reassert Addfield

Environmental Systems Ltd and Addfield Projects Ltd confirms its support of the ten principles of the United Nations Global Compact in the areas of Human Rights, Labour, Environment and Anti-Corruption.

In the following annual communication on progress and sustainability, we will once again layout our actions to integrate the Global Compact and its principles and share how we include these into our daily business strategy, culture and operations. Operating from a position of visibility we are similarly committed to sharing this information with all of our stakeholders using our primary channels of communication.



MD Derek Carr with Addfield Projects Operations Director Harjot Bhullar



This year we have continued to see a steady increase in our international orders, as our reputation ensures companies that choosing Addfield is an investment into the future.

We have recently received some of our largest orders to date and our factory is the busiest it has ever been. It is an honour to continue steering Addfield in the direction it has been so firmly established on and we have some very exciting changes due in the next year.

Derek Carr MD.



MD Derek Carr at our head office and factory in Staffordshire, United Kingdom.

Inside the filter tower of a high-capacity incinerator, one of many steps protecting the environment from emissions.



# Industry context

Thermal waste treatment more commonly known as 'Incineration' and 'Cremation' is not a new approach to waste disposal. What is new however is the professional and environmental approaches that can be taken to protect the environment.

Clean, environmental results have always been the emphasis behind everything we do at Addfield. In many instances when people think of incineration, they imagine plumes of smoke billowing out of a chimney, whereas in reality, the most you will see coming out of an Addfield incinerator is the faint shimmer of a heat haze.

Our entry to the industry began in 1982 initially providing farmers across the UK with agricultural incinerators to help dispose of fallen stock safely during the catastrophic Foot and Mouth crisis in the 1980's. During the following 43 years the company has developed alongside our range, following industry demands. Expanding from only agricultural machines to include separate and dedicated solutions for, pet cremation, aquacultural waste, municipal, hazardous and medical waste incineration as well as complex and unique bespoke projects. Each waste type requiring its own unique approach and optimisations to ensure clean outcomes are achievable.

The worldwide approach to waste disposal has matured dramatically during the past 40 years. It is now a carefully regulated one full of emission standards, and operational regulations. The key environmental sector goals are often set out globally and further tuned regionally and by country. As a business we set ourselves the standard of ensuring we adhere

to the most reaching requirements such as the EU regulations and UN goals. We have focused our development around these, ensuring that as a business we consistently have a higher baseline for quality, safety and environmental protection than most other options for incineration.

We expect to see continued regulations come into place in the coming years to keep environmental standards high, whilst requiring genuine solutions to the global crisis caused by the dramatic increase in the need to dispose of non-recyclable, plastic and clinical waste. As such we are taking steps now to ensure that however these regulations go, that our existing and future customers will still have the safest solutions for disposing of waste. And therefore be able to continue operating as-is or upgrade their machines with minimal inconvenience and costs.

We have seen the global attitude towards waste being addressed. New regulations in countries restricting the exporting and importing of recyclable waste, a reduction in acceptable landfill sites, and the highest level of consumer disposability in history.

As such we have endeavoured to develop a professional range of solutions targeting each waste type directly, rather than following the one machine for all approaches commonly enacted by many alternate manufacturers.





One of many Thunder 1000 Aquacultural Incinerators installed on floating platforms across Patagonia, Chile.



A new dedicated airport incinerator in the Dominican Republic.

## Recent highlights

In recent years we have been privileged to have been invited to complete a number of environmentally protective projects as AES and Addfield Projects. Beyond our traditional incinerators we have created unique solutions, each one delivering dramatic benefits to the communities where they are installed as well as the macro environment.

Preventing pollution, reducing fossil fuel usage and creating a cleaner atmosphere are among many of our recent outcomes.

Our machines are continuing to provide solutions to combat increasing medical waste, with dozens of installations of GM and MP incinerators most notably across, Venezuela, Liberia, Nigeria and Cameroon and an exciting new project in Ethiopia.

Our C range of machines have taken the biosecurity risks out of many South American airports with 6 installed across the Dominican Republic and 1 in Honduras. Airport waste is restricted and these enable the disposal at source, reducing the risk of invasive species entering the ecology.

We are helping the USA to prepare for the next biosecurity challenge and outbreaks of Avian Flu or African Swine Fever supplying the government with 22 high-capacity

mobile Rapid 1000 incinerators. Able to dispose of up to 1 tonne an hour and ready to be deployed at a moments notice.

We have two high-capacity and waste to energy facilities awaiting delivery to dispose of the general and municipal waste of the Falkland island and Guernsey reducing the risk to marine ecosystems.

Additional two more high capacity installations in the UK about to begin.

Finally we are on the cusp of transforming the Human Cremation industry with the installation of our first fully electric "Aurora" cremator due for completion in Q4 2025.

We happily share our successes online, and as such, you can find many of these highlights alongside many essential installs in the. Case Studies section of our website by visiting - <https://addfield.com/case-studies/>





# Our sustainable strategy

Addfield is an SME whose growth has been carefully measured to be sustainable. Avoiding jumping into risky propositions and projects when we were not able to complete them satisfactorily purely for short term gain. Instead, we have allowed the market to initially guide us, and as a result we have been able to begin leading the industry accordingly delivering only safe solutions for disposing of waste.

Efficiency has always driven the design and construction of our machines. Incorporating advanced insulation with our unique triple-layered brick-based refractories, alongside premium thick steel fabrication. This approach allows us to produce machines that are on average 40% more fuel efficient than alternative manufacturers (utilising monolithic concrete block construction). We build our incinerators/cremators robustly, easy to maintain and using accessible consumable parts for self-repair and service in even the most remote installations. This all goes a long way to confirm our claim of having operational lifespans exceeding 20 years (with regular servicing). We avoid built in obsolescence and have removed the impact of replacing machines prematurely.

Sustainable production is practised throughout the factory and implemented into our daily operation. Led from the top by our directors and their passions, employing a team reflecting their commitment

to quality enabling effortless trickling down of sustainable thought and operation into every element of the company. Attracting like-minded professionals that take pride in being a part of a business that makes a difference.

Alongside this growth came an awareness and real understanding of the environmental benefits that these machines could deliver. As such sustainability has never been formally adopted but has in fact always been a foundation of what we do here at Addfield.

We have an established strategic management team to ensure we continue to approach sustainability from multiple directions. Running a business that can operate and grow sustainably is our primary focus. Ensuring stable market expansion is achievable in the correct industries and countries, and continuing to produce solutions that protect the environment and customers investment for 20+ years. We continuously evaluate current and past successes, alongside

establishing targets to maintain these achievements into the future. Our management team sets and reviews Key Performance Indicators (KPI's) and targets in departmental weekly meetings alongside monthly distributor/supplier conference calls and regular planning sessions with the Department for International Trade (DIT) and similar organisations to shape our future.

As we are operating globally across multiple industries, tracking the impact of our work and ensuring we are achieving our targets and highlighting areas for improvement is vital. Identifying performance benefits and completing annual reviews with customers assessing usage on machines, reviewing fuel consumption and providing operational recommendations. Through our multiple personnel channels, we can complete these in person in the UK and remotely worldwide. By reviewing the real-world usage of our customers we are able to make consistent and significant improvements to our





# Example of efficiency

Our claims of providing machines that are on average 40% more fuel efficient than monolithic cast alternatives is a figure established through our relationships with our customers. Maintaining contact for the life of our machines allows us to get insights into usage patterns which gives us our data. We design our incinerators and cremators using complex visualisation software and computational fluid dynamics to ensure maximum efficiency alongside decades of real word industry experience.

If we consider initially one of our most popular agricultural machines the SB, which is a medium sized incinerator. The increased efficiency that our design and production provides saves approximately 36 litres of diesel fuel every incineration. Proposing an average usage of 3 incinerations a week, this would save approximately 5,615 litres of fuel a year, taking that forward across the proposed 20 years of consistent usage this then accounts for massive saving of 112,320 litres.

Moving up to the next level. Our installation for the NHS in the UK at New Cross Hospital of a C350 high capacity medical incinerator. This facility has been built to be in constant operation, 340 days a year. Using approximately 408,000 litres of fuel annually. Through our approach to construction, we estimate to save approximately 272,000 litres every year, or 5,440,000 litres over 20 years. In addition to this the C350 is equipped with a full waste to energy boiler system heating the hospital through hot water generated as a by-product of the incineration process creating clean, green and sustainable energy for the life of the incinerator. Resulting in further savings in gas bills of over £200,000 per year and taking a huge step towards making the NHS hospital carbon neutral .

**5 fully mobile Rapid 1000 biosecurity incinerators on standby ready to roll into action when needed.**

machines.

Operating across many distinct industries our KPI's have been adapted to encompass multiple outcomes. Having a long life, replacing machines is not something we do often. As such one of our main KPI's has been to gain repeat business and public recognition. Since 2016 we have achieved over 60 large repeat orders resulting in over 400 machines delivered and millions in revenue across only a handful of customers. Our more traditional KPI's are measured against tenders applied for/won, quotations issued and successful, individual enquiries and monthly engagement and interactions. We have KPI's established for the performance of machines and non-conformances, as well as production targets and throughput across the factory. These are all moni-


tored weekly through internal meetings and monthly through director meetings. A direct result of all these targets and meetings has been a noticeable reduction in waste, and an increase in production efficiency.

Measuring sustainability encompasses many aspects, successful installations are essential. Our QHSE team oversees Health and Safety alongside stringent Non-Compliance Reporting ensuring customers receive the appropriate solutions. We are Accredited to ISO standards 9001/2015, 'Quality Management', having a strong customer focus, motivated management team, and process approach to continual improvement. Also achieving 14001/2015, 'Environmental Management' including life-cycle analysis of the impact of our machines alongside combating

environmental challenges including climate change, measuring and improving our impact.

The sustainable future for Addfield can simply be summed up in the following statement of commitment, "To continue to educate, communicate, train and lead the industry with innovative solutions that are genuinely sustainable along multiple pathways. To continue to invest in R&D at the same high levels that we have throughout our modern history. To share our successes and innovations in fields people may not have considered an option, such as gold reclamation, waste oil solutions and medical advances. We are continuing to look to areas to further invest currently introducing options to incorporate renewable energy in the operations of a select range of cremators."

# Supporting the environment



Medical incinerators disposing of pharmaceutical and mixed hazardous waste in South America.

Climate change is a genuine concern of ours producing machines that predominantly rely upon fossil fuels to operate. However, in many instances Incineration and Cremation are the most environmentally protective ways to remove certain waste streams from the environment.

As such it is our responsibility to create solutions that do so as cleanly and efficiently as possible. Alongside this we are working to operate as a business as far towards a net zero standing as possible incorporating robust Reduce, Reuse, and Recycle strategies into our operation. We are constantly investigating into ways our workforce locally and internationally can work efficiently.

As an exporter, we are consistently working to further reduce the carbon footprint from global transport requirements. Expanding our network of international distributors and engineers, enabling local engineers to install and commission machines in Africa, South America and other remote locations without having to fly engineers out from the UK where possible reducing the air miles travelled.

To further reduce the need for engineer site visits, we have invested in developing an online video training platform containing training courses covering the installation, operation

and commissioning of the majority of our ranges. We are currently in the process of publishing multi lingual versions of these courses to further improve reach. Removing the requirements for engineers' travel, reducing customer costs, enabling them to employ locally and reducing the impact of air travel. We have reduced our travel and accommodation costs by approximately 40% since 2020. Having the additional benefit of keeping engineers on-site and improving production efficiency.

As a by-product of regular staff meetings we have implemented several operational improvements including; reduced material wastage during production, standardising sub-assemblies, improving insulation linings, increasing product efficiency, and analysing the life cycle costs of equipment to improve longevity and customer resourcing.

We understand the complexities of incineration and the outputs that different wastes create. This is why we have such a wide range of solutions as each is optimised specifically towards the type of waste to be processed and while on the outside many may look similar it is in the construction and programming that makes them ideal. As part of the customer journey we always ensure that the customer under-

stands their obligations to maintain and operate the machines correctly and if we believe that they will be abused and the wrong quantities or types of waste will be attempted, which could lead to environmental damage we will work to educate the customer towards the most secure approach.

We approach sustainability from a holistic perspective, including product, service and management, reinvesting profits establishing ourselves as a business that puts results first. Ethical destruction of waste is the cornerstone of our operation, if we cannot provide an environmentally safe and sustainable solution for the customer we remove ourselves from the sale, opting only to work on projects we would be proud to stand beside.

This has always been a driving force behind our machines leading us to consistently invest in R & D, allowing us to deliver solutions that exceed even the toughest environmental regulations. The only future for incineration and cremation is an environmental one and as such ensuring a sustainable future for our customers remains a key factor underpinning all of our machines.



# Global reach, Global responsibility



## Ethics, Anti-Bribery & Corruption and Transparency

Working within an international environment, providing solutions for developed and developing countries across a range of customers covering private individuals, companies, NGO's and Government bodies we do occasionally come up against the situation of bribery. As a business we actively avoid and refuse to participate in this and any form of corruption, including extortion and bribery. We know that in some regions it may be seen as a traditional facet of doing business however we take the position of formally stating that we do not work with or endorse bribery and advise our distributors to take the same stance. We know that we have lost contracts because of this ethical position, however it is a policy we will always stand by.

We adhere to these same principals for the purchasing of all components for our machines monitoring our suppliers' infrastructure to ensure the quality of our final product, alongside guaranteeing parts are ethically sourced and delivered.

Wherever possible we aim to source locally as such over 60% of our suppliers are based within 25 miles of our head office. We have visited many suppliers and factories internationally, following inspections refused to do business with some. Maintaining quality relationships with suppliers allows us to keep our high standards, ensuring consistent quality and long-term results will always be achieved. When found to be lacking we work in a mentoring capacity with suppliers to help them improve their business practices before removing them from our supply chain following continued failure to address problems to our satisfaction.

Our policies cover our commitment to employee collective bargaining, the abolishment of child labour and the elimination of discrimination in all forms. We expect our suppliers and business partners to at a minimum adhere to our policy if they do not currently have their own. We offer to support with our QHSE Manager to lead them through this process if required.



# Supporting people

Addfield's annual summer activity day bringing all staff together.

We are a UK based business with a global network and reach. You will find the majority of our direct employees are based in our head offices in Burntwood, Staffordshire, England. We have a team in the USA in addition to this we also have a network of well-trained professionals that we do consider an extension to our team and treat them as such whether they are currently working on a contract for us or not. Beyond that we have a growing network of international distributors who themselves have their own employees. This gives us considerable reach and the ability to support and service customers in more than 150 countries.

Although we cannot directly control how our international partners manage their employees we do expect all of our distributors and business partners to accept and follow our guidelines for employment. If the situation ever occurred where we found that they were unable or unwilling to do so we would reconsider our future with them depending upon the severity of the situation, and cease doing business with them if suitable improvements could not be independently verified.

In 2008 when the current iteration

of Addfield took shape we had a very small permanent workforce of only three employees we now have eighty across two business units. We have grown sustainably without overstretching. Securing and maintaining a growing workforce that crosses a number of social and demographic backgrounds. From our initial three-person team through to today our management approach has always been one of accessibility and equality operating an open-door organisation the MD and Operations Director are available for all staff to approach and discuss ideas. We have found this style of leadership has enabled a proactive and inclusive approach to business recognising issues early and discovering opportunities to excel.

Our mission is to continue operating and growing as a business ethically. Providing job security to our employees, service and maintenance security to our customers, and economic growth to the communities in which we operate. Seeing dramatic growth throughout recent years, reflecting the results of well over a decade of commitment to becoming established and recognised for our quality.

The secret to the success of our machines is simple, we employ

a team of expert crafts people overseen by a small dedicated management team that operates through all levels of the organisation. This allows us to gain a 360° understanding of the operation and the challenges presented daily. We maintain our own stable manufacturing base in the UK. We could easily outsource manufacturing to other countries, however, we are proud of the quality and consistency of our workforce and believe that keeping an experienced local base in the UK is one of our greatest strengths. To continue this capability we maintain regular training activities, employing apprentices and trainee engineers through all stages of their career. In addition to regular weekly toolbox talks sharing best practices and organisational updates as we aim to ensure that all employees are aware of the opportunities and challenges that we as a business are facing so that they can share their wisdom to aid us to continue to grow.

Taking two approaches to recruiting our workforce, the first focusing on our core manufacturing facility and operations in the UK. Our manufacturing incorporates many dying skills such as refractory masonry, to keep this skill



base in the UK we have implemented training programs for our new recruits to ensure they have the skills necessary to build a career. We intend our workforce to be with us for many years and set internal targets to keep and develop at all stages from apprentices through to senior management utilising formal and informal approaches to development. Promoting internally the majority of managers have worked their way up in the company as have many directors. As an international business, we actively encourage and

welcome a multi-ethnic and multi-lingual workforce, and currently have team members originally from Columbia, India, Bulgaria and Poland.

Our QHSE and HR teams are working in unison to improve the well-being of all staff through developing and implementing a number of incentives shaped around the individual needs of each department for maximum benefit and impact.

Our wellbeing program includes access to an external support

service for all staff alongside focussing on specific monthly topics sharing key information and promoting healthy activities throughout each month. Alongside a team of 'Mental Health' first aiders on hand for all.

We have regular committee meetings with representatives from every department discussing directly with the MD any staff queries, requests or concerns, improving employee satisfaction and allowing us to learn from the front lines adapting and improving rapidly.



## Our external network

We are now responsible for the employment of hundreds of people across the world directly and indirectly. Directly through our own employees and network of approved engineers, indirectly through our distribution network alongside the operatives jobs created through the installation of our machines.

Expanding our international team, we have over 25 approved agents and distributors of various sizes across the world. Operating along individual levels of exclusivity we have set employment standards we expect them to adhere to and strongly encourage them to improve their sustainability in-country introducing them to our partners in the neighbouring regions. Delivering coaching and training in appropriate and expected employment policies that we adhere to, helping our distributors grow into successful business operations.

We take this responsibility seriously ensuring that our machines are fit for purpose and able to be in regular operation in even the most inhospitable environments. Providing safety and job security to the people that are operating the machines daily. We provide remote support for the life of all machines for no additional charge. Recently employing a multilingual expert 'Technical Engineer' to ensure that we have the experience available to deliver prompt support. In addition, our development

of multi-lingual print and online video training resources and guides, places the ability to maintain and repair the majority of our machines firmly in the hands of the customer. A level of after sales care that we believe is unmatched in the industry.

We believe in sustainable employment opportunities for all, and are regularly in contact with our international engineers bringing them to the UK for training whilst ensuring that they are treated fairly in their employment in their home countries. We have sponsored several of our engineers from Nigeria to join us for three years. Already having years of experience installing many of our medical incinerators across Africa this will provide additional skills to manage a team in country to our standards formally.

We have established guidelines for our distributors to follow in their operation and management of projects and we work directly with many international aid agencies and government bodies on the installation and ongoing operation and maintenance of machines across developed and developing countries. It is our goal to ensure that all are employed sustainably and fairly and that none would be co-opted into the trappings that are found in industries that encourage modern slavery techniques and forced compulsory labour.



A background image showing a worker in a hard hat and safety glasses working on a large, complex industrial structure, likely a refractory chamber, in a factory setting.

# Creating a secure future for our workforce

Growth is essential for any business, but it is only, considered growth that can guarantee a future for our workforce and for our customers. We have always taken a practical approach to the waste disposal sector. We already create the most sustainable products and services however if we were to move these into a sector that is unable to implement this, then we may not succeed. Since 2008 all range and operational expansions have followed the same planned pathways, initially the responsibility of the directors completing due diligence to ensure every sector is mature enough to make viable sense. Our focus is in selecting solutions that benefit customers and our environmental goals over pure bottom line. As such it is our director's responsibility to educate and enthuse all internal departments and to appear as respectable public figures in the waste management communities.

Branching out safely from being a purely agricultural supplier to the UK to an internationally respected business across several core industries and additional custom solutions. Each step followed the same journeys of sustainability to ensure security and protect our workforce from over extension.

The waste industry is changing constantly, in the same way that new opportunities appear existing sectors may move away from incineration. We have seen some sectors transform their approach

to treating waste that could have had an impact upon us if we had not already developed multiple industry markets. The same is true about environmental goals. Incineration will always rely upon a degree of fossil fuels, however there are many ways that we can make our machines greener. Already we have options for waste oil, bio-fuel and several alternate fuel sources. Solar power is now able to replace generators for some installations and as technology improves, we will see this implemented on more machines.

Medical waste recently became such an important sector that we have adjusted our operational practices to ensure faster turnaround times. Previously only manufacturing upon deposit we are now investing heavily into expanding to be able to keep stock of our most in demand Medical and Agricultural machines in constant production for rapid deployment for emergencies such as pandemics and outbreaks of farming diseases. This approach is one such example of careful consideration or risks and opportunities to create solutions that not only benefits Addfields' staff but also our customers and the greater environment by being able to respond to contamination and biosecurity risks faster.

As a business we support and respect the protection of all internationally proclaimed human rights as well as implementing

our own policies and practices to ensure that we are not engaged in or complicit in any human rights abuses.

As an employer we have direct control of our employees laying down foundations for them to follow avoiding corruption and abuse in all of its forms including extortion and bribery. To enable this we have a whistle blower policy in place to enable this to be accessed by all levels of the organisation. Although not directly in control of our distributors and international engineers we do expect them to operate along the same principles that we follow. This is managed through codes of conduct that are agreed upfront as well as through regular conference calls. If between meetings we were to discover a failure to adhere to our guidelines then we would bring forward the meeting to ensure that the issue is addressed and overcome acceptably, alternatively discuss ending our agreements with the businesses involved.

Proudly in our 43 years of operation we have not encountered such a situation.

Operating an open-door organisation the MD and Operations Director are accessible for all staff to approach and discuss all ideas. This style enables a proactive approach to business seeing issues early and discovering opportunities.

**A skilled fabricator works alongside our refractory team on a larger than usual primary chamber.**



# Supporting society



When the current leadership team took control in 2008, Addfield only produced a handful of machines a year for the UK agricultural market. Since then we have expanded from having only three employees to over eighty through sustainable growth. This has been achieved through expanding into new markets and countries gradually. Each expansion is scrutinised for impact on the business and future potential, avoiding growing too fast into immature markets.



Full training is delivered by our engineers

The principles behind this approach are to protect the company from legislative changes or trends that could drastically impact the viability of incineration and could cut off a revenue stream. Maintaining markets concurrently allows us to grow safely, securing jobs across the UK and internationally. As such we have grown at a stable pace reinvesting profits into Addfield expanding in-line with our market

growth and order books. The majority of our workforce are based within 10 miles of our facility keeping the community active.

We believe clean air and a safe environment to live in are basic human rights and consider all installations as if they were in our own back garden.



Livestock grazing discarded medical waste

Over the years our teams have seen first-hand, medical waste discarded in open piles, on public ground grazed upon by free-roaming cattle, and landfill sites where local children have been seen salvaging medical waste. We know the risks that cross contamination can have on a community. We understand the responsibility that is on us for every installation to protect the community where these machines will be installed. This is why we build them to last using premium materials that can be maintained locally. As part of our commissioning we train local engineers so that

they can service and maintain the machines to keep the waste able to be disposed of safely.

Although health benefits may not be widely associated with incineration, correct medical waste disposal helps save lives across developing countries. We have become the preferred supplier to international aid agencies, in turn leading to installations across dozens of sites, disposing of vaccine and hospital waste. 2021 brought home how essential it is for clinical waste to be disposed of correctly. Developing countries with poor facilities particularly feeling the impact of the tsunami of waste generated as a result of the pandemic. Since this time we have continued to prioritise the production of essential medical incinerators for these customers over all other orders.



A new MP200 installed in Equatorial Guinea

# External communication and engagement



Delivering a talk on trade barriers for BHSEA.



Delivering insights on Waste to Energy to industry peers.



Active members of the DIT Exporting Champions project since 2019.

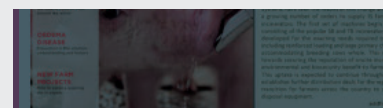
Proud of the impacts we have seen achieved through exporting. We had this validated in 2018 by the Department of International Trade (DIT), receiving the Board of Trade award. Following which we have become ambassadors for the DIT since 2019 as part of their exporting champions program. Mentoring businesses across the West Midlands, delivering workshops supporting them to begin exporting, sharing our experiences helping to amplify the

impact that they could achieve. Additionally delivering talks in person and online on behalf of Greater Birmingham Chamber Of Commerce and Lichfield District Council to encourage exporting, business growth and sustainability in Staffordshire for the local community. As a result of our continuing involvement, we have also become SME UK Trade Advisory Group (UKTAG) advisors further developing business opportunities for exporters and supporting

the work being carried out for future trade agreements.

Business Transparency is important due to misconceptions associated with incineration.

We are an open-door business accepting visitors to view the manufacturing process first-hand seeing why our machines deliver on all promises. We've rolled out this approach to the macro environment for publications and media organisations participating in news features





and opinion pieces. Providing interviews for TV, web and print publications, also participating in research programs for the DIT and Universities.

Welcoming the media from an educational perspective to inform and provide a knowledge resource. Posting industry news and environmental practice, alongside technological innovation. Publishing expanded articles and case studies on our website alongside a PR strategy sharing key news stories with global publications. All written to Plain English Campaign guidelines to connect with as wide an audience as possible avoiding overwriting and jargon. Our content is available to all internal and external parties, additionally, we present quarterly highlights internally and externally via newsletters for staff and distributors respectively.

Addfield is first and foremost an environmental organisation. All of our products exist to provide environmental benefits through sustainable solutions to a problem that simply cannot be ignored. Non-recyclable and hazardous waste in most instances can only be safely disposed of via incineration there is a global shortage of landfill, which is also unfit for disposing of this type of waste and so incineration is the only answer. That does not mean however that there is only one way to incinerate.

Our machines are developed to

not only burn waste but to do so as efficiently and cleanly as possible. For over 40 years we have developed solutions that we are confident in stating are the most sustainable approaches. Combining advanced construction techniques alongside premium materials. Opting for thicker steel and insulation than alternate suppliers. Alongside setting the standards for flue gas cleaning having adjustable programs to optimise the process to exactly suit the waste type. Through to additional waste filtration components going as far as implementing waste to energy reclamation for the higher capacity projects.

Our incinerators are designed not only to cremate today and tomorrow but for the future as such we manufacture machines secure enough to withstand changes in regulation and flexible to adapt to alternate fuels and operational practices that may become necessities in years to come.

Correct incineration is a sustainable solution to waste disposal. Addfield educates this approach through our global network of distributors working closely with governments and aid agencies helping shape policies and tenders ensuring emissions are minimal and monitored. Providing solutions that are efficient and sustainable to the unique demographic requirements. All

of our machines are built to meet the strict regulations of the EU and UK, regardless of whether more lax regulations are in place. When required we also provide advanced filtration systems to match more demanding specific waste types.

It is clear that climate change is a great danger to the modern world. The reliance of fossil fuels does need to be reduced as does the creation of harmful gasses. Although Incineration is still reliant upon fossil fuels to manage the cycle, these still can be managed environmentally.

Addfield considers the environmental impact at all stages of development from the smallest to the largest of machines. One of our USP's is an exact counter to excessive fuel usage. Where many alternate manufacturers are happy to supply machines made with inferior steel thickness and insulation. We go the extra distance on quality combining thicker steel alongside 7 inches of insulation this can reduce the fuel used by an average of 40% when combined with a life expectancy of over twenty years reflects a massive saving and commitment to protecting the environment.

Addfield has been producing incinerators since 1982 however you would be hard pressed to recognise our first machines next to our latest. We have invested continuously in the improvement of every machine we produce.

# Sharing our success with all

Visit <https://addfield.com/media/> to access a library of our global media coverage.



# Next steps for the thermal treatment industry

Innovation has always been a driving factor at Addfield. Establishing a culture of continuous improvement, some visible whilst others are buried deep inside the design and construction of the machine.

It is this culture of enquiry that has kept our traditional machines at the pinnacle of quality, it has also enabled us to embrace challenges leading to the establishment of our second business Addfield Projects (also trading as Addfield Cremations). Although a separate entity in its own right, it comes under the same management team as Addfield Environmental Systems and as such is also committed to the UNCOP principals previously discussed.

The conception for Addfield Projects began in 2019 while work began on 2 very different projects both firsts for Addfield and innovations for the industry.

The first was less than 15 miles away, developing a waste to energy plant for the NHS. This facility would be replacing an aging incinerator managing all the medical waste generated by the hospital and neighbouring health centres. Beyond simply replacing an incinerator we brought the the system up

to date incorporating a full waste to energy system. Converting the energy from the incineration process into sustainable hot water that now provides heat to the entire hospital resulting in saving over £200,000 a year on energy bills and drastically reducing the sites carbon footprint.

The second project which was worked on concurrently was concerned with recycling trash into treasure, gold in fact. This installation was to reclaim precious metals previously lost as part of the production cycle for a major luxury watch manufacturers in Switzerland. A huge success where the project was valued at over £1 million yet was able to achieve an ROI within 8 weeks. Dramatically reducing the reliance on mining and processing gold by recycling and reclaiming materials already produced.

Two very different machines with one common goal to deliver high quality sustainable results for treating non-recyclable and hazardous waste. In the years that followed the small team grew in scale and status taking on increasingly complex installations addressing medical waste in the Middle East, cyanidation solutions in Saudi Arabia, petrochemical

site treatment in Central Africa and many more projects.

The decision was made to separate Addfield Projects which became Ltd in 2022. Since this date it has been driven by the development of increasingly sustainable solutions for waste treatment. Exploring the opportunities in hybrid and renewable solutions.

In 2024 Addfield Projects was able to take the next leap into its custom built permanent premises including an over 25,000 sq/ft manufacturing facility. Built to our own specifications the new premises has been able to implement many operational and environmental improvements to reinforce the environmental commitment that we share. Including many more traditional approaches to carbon neutrality being solar powered and incorporating smart technology to reduce waste, through to smaller more direct but no less important initiatives such as Beehives and a wild garden area. Proving that not every step to improving the environment has to be massive and that if we all combined and committed to small and consistent actions incredible opportunities can be accessed.

**A 1 tonne an hour waste to energy plant being put through factory acceptance testing.**





The full team at Addfield projects standing outside the new custom built office and manufacturing facility.

## Future technologies



Introducing Addfield Cremations to the world alongside partner Ignis at the Cremation Show in Poland

Although Incineration is one of the cleanest ways to dispose of non-recyclable and hazardous waste, there currently is still a reliance on fossil fuels to power the burners. As such, we have been developing new systems to reduce this for a number of years, bringing the option for solar energy to replace diesel powered generators for some installations in more tropical climates for smaller incineration machines.

It is in the recent addition of Human Cremation to our catalogue of options that has enabled us to achieve a breakthrough in technology.

A similar industry in concept, in fact, we have designed many of our machines to incorporate the best of human cremation principals.

In operation, Human Cremation requires many additional regulations to be adhered to, requiring us to design an approach from the ground up. Providing us the opportunity to invest deeply into developing the future of cremation, which will one day be able to roll out across our range. A new department of Addfield Projects, and already awarded with the Bronze Trusted Supplier Award by the Greener Globe Funeral Standards for our commitment has been created.

Addfield Cremations has been established to bring our efficient approach to traditional gas and diesel powered cremators, a hybrid option and what we are most proud of in a fully electric version due for installation in quarter 4 2025.



Receiving Bronze trusted supplier.

Electric cremators are already available, but based upon old technology, however we wanted to follow the adage of being "Simply Built Better," that we attach to every project, and develop the most efficient machine in operation and energy consumption. Aurora is our first all-electric cremator, which will deliver faster warm-up and cremation times, increasing throughput and reducing the carbon impact of cremation.

We have a number of installations lined up in the UK to begin with, and following that, will branch out internationally through our existing networks.

# Embracing opportunity

Transferring innovation across all ranges once we are confident in its efficiency. Incorporating new discoveries developed internally by our team as well as taking feedback from our engineers and customers to best practices and steps to improve the performance. This has led to improvements in the operational program, saving time and fuel, changing component parts for increased longevity and seamlessly implementing these across our machines.

As a result of this and the change in environmental regulations we have pressed our suppliers to ensure that their parts are fit for purpose and reliability. Encouraging our burner supplier to bring biofuel to our customers, alongside utilising their international distribution network to provide localised deliveries cutting back on unnecessary delivery miles.

Technological developments are enabling us to supply greener solutions. Our introduction of HVO biofuel burners can provide a fully

carbon-neutral fuel source for all of our incinerators. Solar power is now used with specific models instead of requiring a diesel generator. Waste-to-energy plants are becoming smaller, although not yet accessible to everyone, we are working to bring these solutions to several industries and regions as the technology makes this possible.

In addition to this our senior management team and directors have made themselves accessible for supporting the UK and international business. Delivering talks in person directly to decision makers in the UAE, Africa, Thailand and closer to home across the UK. Presenting to government and aid agency representatives alongside industry peers. Delivered independently and as participants in talks, master classes and round tables as Exporting Champions for the DIT which we are now entering our seventh year as representatives.

Rising to the status to be able to

advise international aid agencies, government agencies and other advisory bodies in what specification of incinerator is sustainable and environmentally clean. Where stringent EU emissions aren't enforced outside the EU, our adherence to this level has provided all consumers with the ability to be sustainable. So much so that many tenders and specifications toward incinerators are now shaped around our unique triple-layered refractory and build quality.

Already integrating future sustainability into our business plan to continue growing the business. Regularly reviewing markets to be explored, checking levels of maturity and incorporating these correspondingly. Building opportunities over a period of time whilst maintaining our stable markets.



Part of a delivery of 12 MP200 medical incinerator for Venezuela.



# Conclusion

Incineration is not just the solution for safely disposing of non-recyclable and hazardous waste. It can also be an essential tool in maintaining biosecurity on farms, keeping our oceans clean and even recycling precious metals. It is our job as a manufacturer to continue our journey to supply the most environmentally secure approach to do so and to educate our customers of the benefits of this.

As we grow as a company and our reach and reputation secures even more machines in an increasing

number of countries our responsibility as an employer expands. It is and will maintain to be our commitment to follow and commit to all requirements of the United Nations Global Compact and Global Reporting Initiative to guarantee that our business impact and operation encompasses not only the equipment we supply but also the lives and the communities for the people of the greater macro environments.

We will continue to thrive following our own sustainable approach

to business and can see a bright future here in the UK and globally through all of our installations.

If you would like to learn more about Addfield and our approach to any of the previously referenced activities you can contact us via the details found on the back cover.

We are incredibly proud of the impact we have had in the past 43 years and will continue with our motto of being, 'Simply Built Better'.



The first high-capacity medical waste incinerator fully built in our new premises, tested and ready to ship.

# International Leaders of incineration solutions

Addfield Environmental Systems Ltd  
Unit 9 - Zone 4  
Burntwood Business Park Burntwood  
Staffordshire  
WS7 3XD

+44 (0)1543 571280  
[sales@addfield.com](mailto:sales@addfield.com)



[www.addfield.com](http://www.addfield.com)