

Planet  
of Plenty™



# SUSTAINABILITY REPORT

2024



**Altech**® COPPENS

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## MESSAGE FROM OUR CEO

**The world has undergone significant changes in recent years. Unexpected conflicts, a pandemic and serious impacts of climate change are affecting our sector. These changes are reshaping our industry, influencing aquaculture production and feed raw material sourcing. This is important food production in general and critical for a growing population.**

At Alltech Coppens, we feel a strong responsibility to sustainability. Our mission is clear: produce fish feeds responsibly to support safe food production while conserving our natural resources. We are dedicated to continuing our efforts in this journey towards an environmentally sustainable and ethical world.

Our commitment is evident in our actions: reducing emissions, enhancing transparency, and developing efficient feeds suitable for the diverse production systems of our customers. We also acknowledge that our current sustainability practices are just the beginning. We continue to search for new approaches to drive positive change, committing to Alltech' Planet of Plenty™.

Our ongoing progress and commitment to sustainability are highlighted in this report. We've achieved the prestigious Ecovadis Gold standard certificate for sustainability. It reflects our commitment and adherence to Environmental, Social & Governance (ESG) principles aligned with UN Sustainable Development Goals. We use Life Cycle Assessment (LCA), energy efficiency, circular practices and increase the rate of byproducts as high-quality raw material in our feeds.

Looking ahead to 2030, we aim to advance research at the Alltech Coppens Aqua Centre, refine raw material choices, and strengthen our leadership in sustainability. Our journey towards a Planet of Plenty™ is made possible through the collaboration of multiple departments and stakeholders, each playing a crucial role. This report provides further insight into their contributions. I'm proud of our dedicated quality team that drives us together towards our goals.

Thank you for your continued support and interest in our sustainability journey. We invite others to join us. Together, we can make a significant impact, ensuring the long-term prosperity of our industry and environment.

**Ronald Faber**  
CEO of Alltech Coppens & Global Aqua Lead

# HISTORY OF ALLTECH COPPENS

**Coppens International BV (CI) was established in 1993 by three Dutch shareholders. At this time, CI developed and sold fish feeds worldwide and sold animal feed and premixes outside of the Netherlands.**

The fish feed was produced by the majority shareholders, the Coppens family, at their feed mill, Coppens Diervoeding, in Helmond. Initially, the feeds were produced by pelletizing and were sold mainly in the Mediterranean for seabass and seabream. In 1995 the first extruder was put into operation at the factory in Helmond.

In 1996 a change in shareholding took place. In 1998/1999, the product range was diversified with ornamental fish feeds, baits and feeding pellets for the angling market. The export of animal feed and premix had always been a small part of the business of CI and was divested in the beginning of 2000.

In this period, the first research trials were outsourced at the "Organisatie ter Verbetering van de Binnenvisserij" (OVB), now known as ACAC, in Leende. Over the following two decades, the cooperation gradually was intensified and the number of trial days significantly increased. Over a period of 13 years, CI had a joint venture in a fish feed factory with an Israeli company, Raanan Marketing Coppens (RMC); that shareholding was divested in 2009.

In the first 10 years, the number of team members increased from 5 to 25 FTE and the sales volume from 1.000 MT to 15.000 MT. In 2003, a major investment was made in a vacuum coater to be able to produce high-energy feeds for new species, like trout and eel.

A market shift was needed due to the high-risk situation, long payment terms and low feed prices in the Mediterranean, upon which the company was heavily depending. To compensate for the loss in sales in the Mediterranean, the focus shifted to RAS in Europe, trout in the Balkans and Russia, catfish in Western Africa, and loan production for the French company Sarb Gheerbrant (SARB). In 2006, the loan production with SARB was terminated as the production line reached its maximum capacity, mainly due to the fast growth in sales in Western

Africa. Over the following years, the surplus of sales was outsourced to different European fish feed producers.

In 2010/2011, the Coppens family decided to sell their shares to an investment company. In 2012, CI purchased a pet food production facility in Nettetal, Germany (now known as Alltech Coppens GmbH), started a complete renovation and invested in additional warehousing. Also during 2012, CI purchased all intellectual rights and the brand name SARB. At the end of 2014, the last batch of fish feed was purchased from Coppens Diervoeding; from that moment onwards, all fish feeds were produced at the current production location.

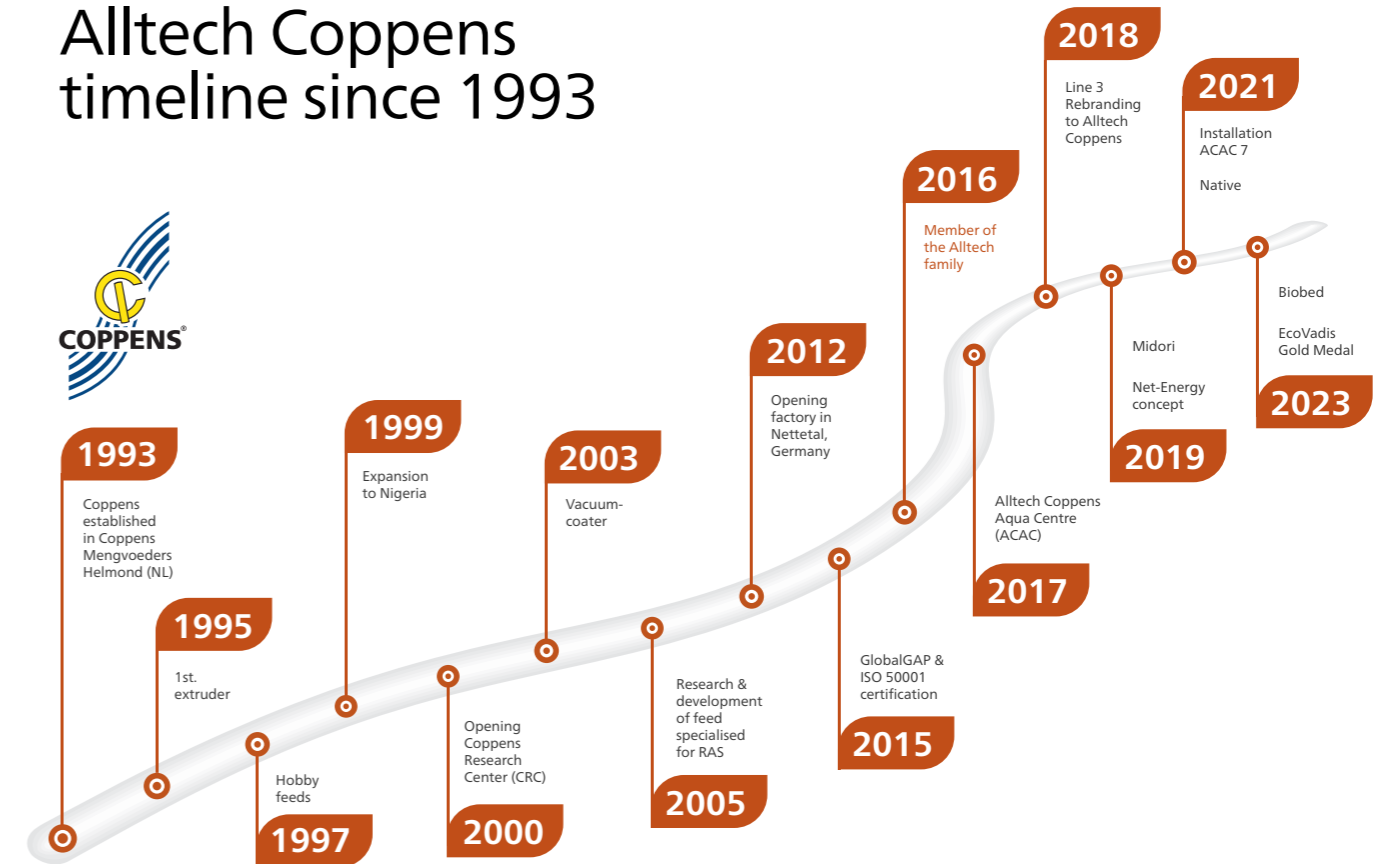
In 2015, GLOBALG.A.P. and ISO 50001 certifications were obtained. In the middle of 2016, 100% of the shares of all three entities, which are now known as AC BV, AC GmbH and ACAC, were purchased by Alltech Ireland, a daughter company of agri-tech giant Alltech, based in the U.S.

**In the second half of 2017, the completely modernized ACAC was opened and shortly afterwards became the fourth Alltech Bioscience Centre.**

AC celebrated its 25th anniversary and opened the 3rd extruder line at AC GmbH in 2018. In the same year, the company was officially rebranded as Alltech Coppens. We defined our future roadmap towards 2030 with a strong focus on sustainability and profitability.



## Alltech Coppens timeline since 1993



**Alltech** COPPENS

# PRODUCT PORTFOLIO

We offer a wide range of specialised fish feeds, which can be divided into two categories: industrial feeds for the aquaculture sector and hobby feeds for the ornamental and angling sectors.

We are recognized in particular for our high-quality feeds for a broad range of species, including trout, sturgeon, catfish, eel, seabass, seabream, tilapia and carp. For each species, we provide the full range of feeds, from starter feeds to grow-out and broodstock feeds.

We specialise in trout feeds for diverse culture systems. Our focus species are trout and sturgeon for semi-intensive and intensive systems and RAS.

Alltech Coppens is currently exporting to more than 60 countries worldwide.

## INDUSTRIAL



TROUT



STURGEON



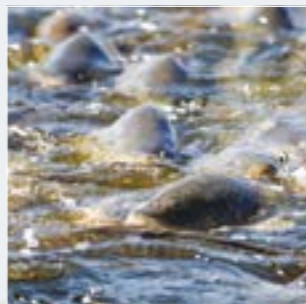
CATFISH



EEL



SEABASS | SEABREAM



CARP

## HOBBY



ANGLING



KOI



POND

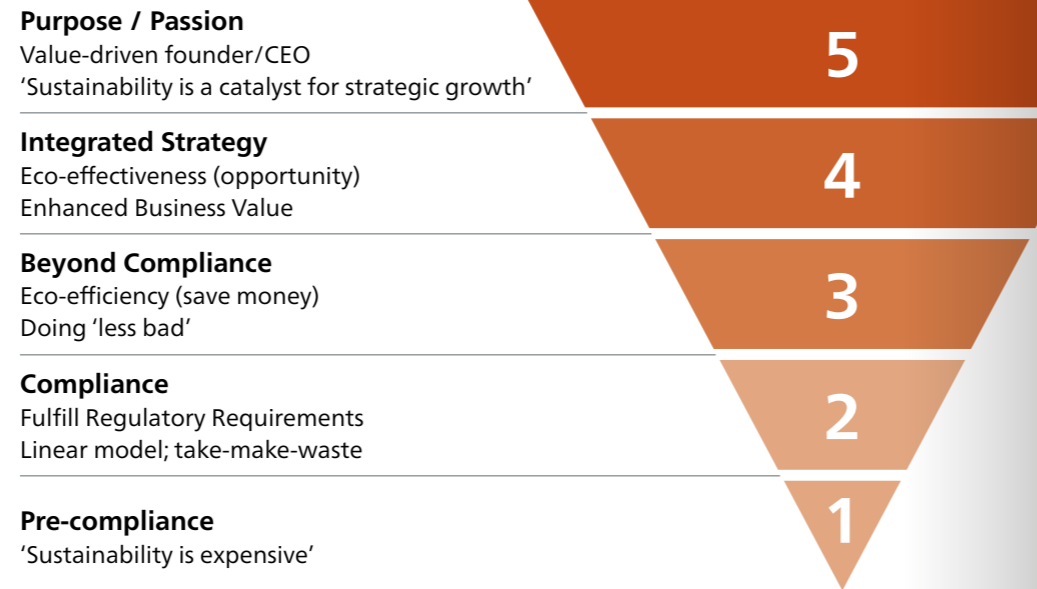


AQUARIUM



# MISSION STATEMENT

**The global population continues to grow quickly, and so does the demand for healthy food. The world is changing rapidly, and everyone has a role to play. We at Alltech Coppens produce fish feed to help farmers produce a product that will answer to the highest market and consumer demands and is in balance with nature and society.**



Aquaculture is the fastest-growing food production sector worldwide. Over the past three decades, it has expanded, intensified and diversified. The current growth rate of aquaculture production exceeds all other types of meat production and is expected to increase even further. With the introduction of new species, together with the intensification of the sector, adverse environmental conditions are increasingly encountered. In addition, consumers are becoming aware of these issues and starting to focus increasingly on the environmental and social impacts of the aquaculture sector.

Seafood is the main source of animal protein for humans in many parts of the world, particularly in developing countries. Depending on species and country, farmed seafood contributes to food security directly through domestic consumption or indirectly through economic growth from exports.

Within Alltech Coppens, we are collaborating closely with local partners and factories to produce efficiently and, at the same time, minimise adverse effects on the environment. Along with sharing our knowledge and experience, we want to provide local communities with better feeds and lower the feed conversion ratio. By doing this, we are not only providing the communities with more food but decreasing the usage of raw materials too.

Our mission at Alltech Coppens is to produce a broad range of high-quality fish feeds with passion and care. Our attention to detail makes us a reliable expert and partner to our customers, and we are dedicated to their performance. We continue to innovate and improve our products to ensure the highest quality.

We believe we have a key role to play in helping fish farmers around the world produce a safe, nutritious and sustainable product, and we believe aquaculture has a key role to play in environmental sustainability. Through careful management of resources, good science and partnering with our customers, we can contribute to a sustainable aquaculture industry.

Within Alltech Coppens, we believe that compliance alone is not enough. Sustainability is integrated within our whole business and is one of the key factors for our strategic growth. This is in keeping with Alltech's global vision of Working Together for a Planet of Plenty™.



Working  
together  
for a  
Planet  
of Plenty™





## WORKING TOGETHER FOR A PLANET OF PLENTY™

### The ACE Principle

**Alltech's mission is guided by our founding ACE principle, which sets standards for the benefit of the Animal, Consumer and Environment. It was a radical idea for the early 1980s when Alltech founder Dr. Pearse Lyons first introduced it, but it remains central to our core values and is reflected in our vision for the future: Working Together for a Planet of Plenty™.**

At Alltech, we passionately believe aquaculture has the potential to shape the future of our planet. We are inspired by the great challenge the world has presented us — to produce enough safe, nutritious food for all while caring for our animals and sustaining our land, air and water for future generations. Our natural resources may be finite, but human ingenuity is infinite.

We committed ourselves to the United Nations Global Compact (UNGC) on July 12, 2019. The UNGC provides corporations with a value system and principle-based approach to conducting business. We strive to operate in a way that meets fundamental responsibilities in the areas of human rights, labour, the environment and anticorruption, and we are working to incorporate the Ten Principles of the UNGC into our strategies, policies and procedures.

Sustainability means taking positive action today for the success of tomorrow. It is a pursuit where there is always room for improvements leading to innovative ideas. Our belief in the possibility of a Planet of Plenty™ is rooted in the reality we see on farms throughout the world. We are committed to telling the stories of the passionate men and women advancing aquaculture and bringing us one step closer to the future we envision.

## The United Nations Sustainable Development Goals

**Doing business all over the world comes with important responsibilities that extend beyond just running a profitable business. We at Alltech Coppens strive to benefit the markets in which we operate, and sustainability is embedded in our business strategy. Achieving real and lasting change is only possible through the collective efforts of everyone who works at Alltech Coppens, as well as our customers, partners, suppliers, NGOs, governments, local communities, and other stakeholders.**

We are determined to contribute to the UN Sustainable Development Goals ([SDGs; THE 17 GOALS | Sustainable Development \(un.org\)](#)). Our focus areas are linked with specific SDGs and their targets, ensuring that we make a meaningful and transparent contribution to the global goals to protect the planet.

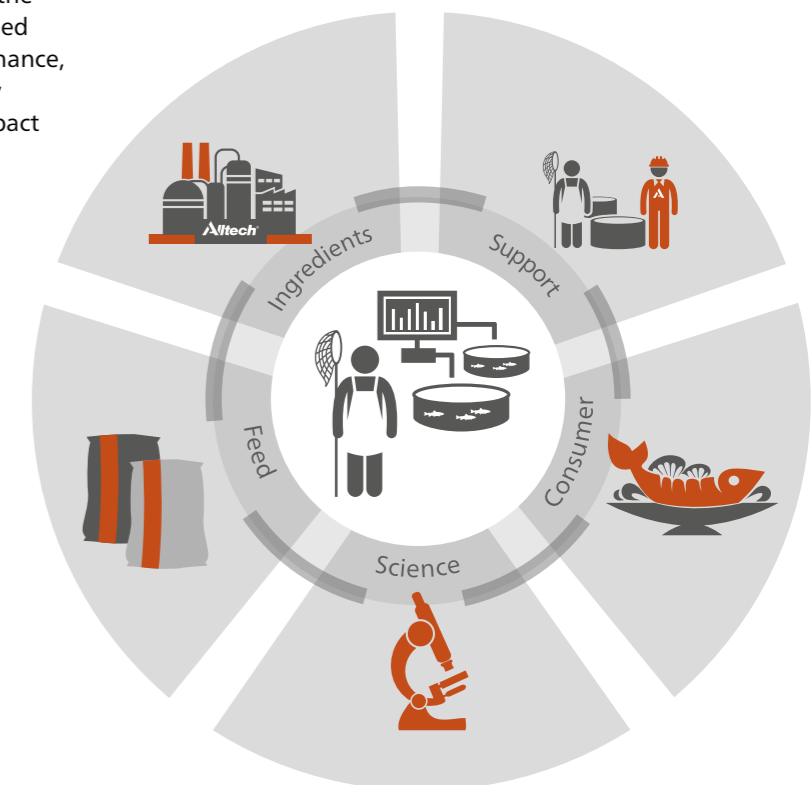
The current global situation should be a wake-up call to all of us. It gives us the perfect opportunity to see the world around us in a different light, to see more clearly what is important and what, perhaps, is not. We should embrace these new insights as a way of embedding the SDGs into our businesses.

It now becomes evident how one specific incident has a significant impact on every other issue and how all the pieces of the puzzle come together to create a unified agenda for global sustainable development. Governance, partnerships, gender equality, decent work — every single one of the 17 SDGs is relevant and has an impact on us.

We at Alltech Coppens are aware of the rapidly changing world and see the strong focus on environmental and social issues as an opportunity. We believe that all activities should be guided by a sense of purpose, which drives our support for the communities in which we operate. Our team members adopt local causes that are close to home, giving each endeavour personal attention.

We also believe that education is the primary catalyst for success and that progress is driven by an insatiable curiosity. Alltech Coppens leads multiple initiatives to inspire the next generation of change-makers. Throughout the world, examples of our educational initiatives abound. From funding Ph.D.s to supporting primary schools in Africa, we have shown our dedicated support of education across every region. Our scientists and colleagues are active in local science education outreach across the globe, discussing and demonstrating scientific activities, providing expertise, and serving as resources for community educators and organizations.

Alltech E-CO<sub>2</sub> is helping us as well, delivering and promoting sustainability programs. Together, we work across the supply chain to provide our stakeholders with a comprehensive range of advice, tools and services to help measure and improve environmental performance (see [www.alltech-e-co2.com](http://www.alltech-e-co2.com) for more information). In addition, we are proud that the Alltech ONE Conference and Alltech ONE World Tour have challenged attendees from around the world to innovate and adopt more sustainable practices.



# CERTIFICATIONS

The certification of products, processes and organisational units according to the strictest available standards is an important process that is related to the sustainability strategy of Alltech Coppens, ensuring independent and objective verification of our performance in integrating sustainability goals into the business. Our raw material suppliers must be certified by independent certification bodies according to the standards set by the Global Partnership for Safe and Sustainable Agriculture (GLOBALG.A.P.). At supplier locations and in other organisational units, our trained team members conduct audits, which are an independent and documented process of evaluating evidence on meeting the criteria of the implemented standards.

## GLOBALG.A.P.

GLOBALG.A.P. is a brand of smart farm assurance solutions built on a portfolio of standards for safe and responsible production processes in agriculture, aquaculture and floriculture. Its holistic approach to certification is developed through extensive collaboration with sector experts. GLOBALG.A.P. activities are supported by a rigorous integrity program and a network of more than 430 GLOBALG.A.P. Community Member organizations from across global value chains. Today, GLOBALG.A.P. solutions provide some of the most respected and internationally recognized standards that support the global trade of farmed products, and GLOBALG.A.P. counts almost 200,000 producers around the world under certification. GLOBALG.A.P. is built on a system of modules that enable producers to get certified for several sub-scopes in one audit. To get certified, producers must comply with all the CPCC relevant for their sub-scope. The modules consist of:

- General regulations: These map out the criteria for successful CPCC implementation as well as setting guidelines for the verification and regulation of the standard.
- Control points and compliance criteria (CPCC): These clearly define the requirements for achieving the quality standard required by GLOBALG.A.P.

In July 2023, Alltech Coppens passed the audits for GLOBALG.A.P. with the add-on assessment module GLOBALG.A.P. NON-GM.



## EcoVadis

In November 2023, Alltech Coppens was awarded a prestigious EcoVadis gold medal in recognition of our commitment and dedication to environmentally friendly and socially responsible business practices. The 4 Pillars central to the EcoVadis certification are environment, labor and human rights, ethics, and sustainable procurement. Here are some key aspects of our sustainability practices:

1. Raw material sourcing: Alltech Coppens places a strong emphasis on responsibly sourcing raw materials for our fish feed production. This includes the careful selection of ingredients to ensure that they are obtained from sustainable and ethical sources. include fair labor practices, community engagement, and contributions to local development. The company may support initiatives that enhance the well-being of communities in which it operates.
2. Environmental impact: Our company has implemented measures to minimize its environmental footprint. This may involve optimizing production processes to reduce energy consumption, water usage and waste generation. Additionally, such measures may be involved in initiatives to mitigate climate change impacts.
3. Social responsibility: Alltech Coppens is actively engaged in promoting social responsibility. This can
4. Traceability and transparency: Our company values transparency in its supply chain. It implements robust traceability systems to ensure that the origin and journey of its raw materials can be easily traced. This transparency helps build trust with consumers and stakeholders.
5. Innovation in feed formulation: Alltech Coppens focuses on research and development to create feed formulations that maximize nutritional efficiency, reduce waste, and improve the overall health of farmed fish. This innovation contributes to the sustainability of aquaculture practices.

## ISO 50.001;2018

ISO 50.001;2018 is an international standard for energy management systems (EnMS). It provides a framework for organizations to establish, implement, maintain, and continually improve energy performance. The goal of ISO 50001 is to help organizations manage energy more efficiently, reduce energy costs, and improve their environmental performance. In July 2023, we again earned the ISO 50001:2018 certification.

The key aspects of ISO 50.001;2018 and why it contributes to sustainability:

1. Energy efficiency: ISO 50.001;2018 is centred around improving energy performance and efficiency within an organization. By implementing this standard, businesses can identify opportunities to reduce energy consumption, optimize energy use, and enhance overall efficiency in their operations. This, in turn, contributes to the conservation of natural resources and the reduction of greenhouse gas emissions.
2. Systematic approach: ISO 50.001;2018 provides a systematic approach to managing energy, incorporating a Plan-Do-Check-Act (PDCA) cycle. This cycle involves planning and setting objectives, implementing actions, monitoring, and measuring results, along with continuously improving the energy management system. This structured methodology ensures that energy efficiency becomes an integral part of the organization's overall management system.
3. Cost savings: Improving energy efficiency often leads to direct cost savings for organizations. By identifying and implementing measures to reduce energy consumption, businesses can lower their energy bills and operational costs. This economic aspect aligns with sustainability, as it promotes resource conservation and financial viability over the long term.
4. Environmental impact: A sizable portion of global greenhouse gas emissions comes from energy consumption. By managing energy more efficiently, organizations can reduce their carbon footprint and environmental impact. ISO 50.001;2018 helps businesses align their energy management practices with broader environmental sustainability goals.
5. Regulatory compliance: Adhering ISO 50.001;2018 can assist organizations in meeting and demonstrating compliance with energy-related regulations and requirements. This is particularly important as many jurisdictions are implementing regulations aimed at reducing energy consumption and promoting sustainable business practices.
6. Continuous improvement: This standard emphasizes the importance of continual improvement in energy performance. Organizations are encouraged to regularly review and update their energy management systems, ensuring that they remain effective in the face of changing circumstances. This commitment to continuous improvement is a fundamental aspect of sustainable practices.

ecovadis

ALLTECH COPPENS GMBH

has been awarded a  
**Gold medal**

as a recognition of their EcoVadis Rating

- NOVEMBER 2023 -



# STAKEHOLDERS

For over 30 years, Alltech Coppens has actively engaged in ongoing dialogue with both internal and external stakeholders. Collaborative projects have focused on enhancing the nutritional and environmental performance of feed and developing multi-stakeholder approaches to establish best practices in the industry. Alltech Coppens is also involved in numerous public research projects and local educational initiatives, significantly contributing to the development of our corporate culture and driving continuous improvement in our operations and products. We aim to reach out to all interest groups to discuss, share information, and learn from business intelligence.

Therefore, we have completed a stakeholder analysis, which involves identifying and understanding the individuals, groups and organizations that have an interest or stake in the company's sustainability initiatives. This analysis helps the company effectively engage with stakeholders, address their concerns, and leverage their support for achieving sustainability goals.

We conducted the stakeholder analysis by following the steps below:

## Identify key stakeholders

We started by identifying all the stakeholders who are affected by or who can affect Alltech Coppens' sustainability efforts. These stakeholders include:

- **Team members:** They are directly involved in implementing sustainability practices and are impacted by the company's policies and workplace environment.
- **Customers:** They are increasingly interested in the sustainability practices of the companies from which they purchase products or services.
- **Suppliers and partners:** They play a role in the supply chain and can impact the company's sustainability outcomes.
- **Local community and society:** The broader community can be affected by the company's operations and its contribution to social and environmental well-being.
- **Regulatory bodies:** They establish and enforce regulations that the company must comply with in its sustainability practices.
- **Educational institutions:** They work with us on multiple initiatives, including developing future fish feeds and new materials and analysing the impact of our decision-making.

## Analyse stakeholders' interests and influence

Once we identified our stakeholders, we analysed their interests and the levels of influence they have on the company's sustainability initiatives.

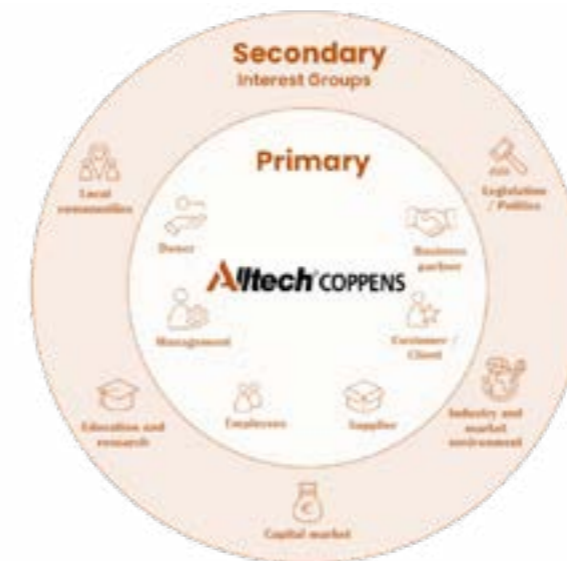
- **Interests:** We wanted to understand what each stakeholder group cares about regarding sustainability. For example, team members might be interested in safe working conditions and fair wages, while customers might focus on environmentally friendly products and ethical practices.
- **Influence:** We assessed the degree of influence each stakeholder has on the company's sustainability efforts. This includes its ability to affect decisions, support or oppose initiatives, and impact the company's reputation and success.



## Prioritize stakeholders

Based on the analyses of interests and influence, we prioritized the stakeholders. Stakeholders with high influence and high interest are given the most attention. For Alltech Coppens, the two most important stakeholders are our team members and our customers.

- **Team members:** They have an important level of influence and interest because their engagement and actions directly impact the company's sustainability performance.
- **Customers:** They also have considerable influence and interest, as their purchasing decisions and feedback can drive the company's sustainability agenda.



For each key stakeholder group, we developed specific strategies to engage them effectively:

### Team members:

- **Involvement:** Engage team members in sustainability initiatives by forming cross-functional teams and committees, combining this with additional rewards.
- **Communication:** Regularly update team members on sustainability goals, progress, and how their roles contribute to these efforts, both by digital communication and by sharing information through our facilities' communication boards.
- **Training:** Provide training and resources to help team members understand and implement sustainable practices.
- **Recognition:** Recognize and reward team members' contributions to sustainability.

### Customers:

- **Transparency:** Communicate openly about the company's sustainability practices, goals, and achievements through various channels and assist where required and needed.
- **Feedback:** Solicit customer feedback on sustainability initiatives and incorporate their suggestions.
- **Education:** Educate customers on the sustainability benefits of products and services by giving seminars and on-site training.
- **Engagement:** Create opportunities for customers to participate in sustainability programs such as recycling initiatives, community projects or tailor-made fish feed formulations.





# HUMAN RESOURCES



The HR department is responsible for the people management of all departments at Alltech Coppens' three locations in Germany and the Netherlands. In our function as an internal service provider, we create environments where our team members can be the best versions of themselves. The HR team also monitors compliance with employee and employer rights. This includes compliance with personnel guidelines, which are developed and implemented in consultation with management. In addition, we ensure that both employees and employer comply with the law (transfer pricing-related and country-specific).

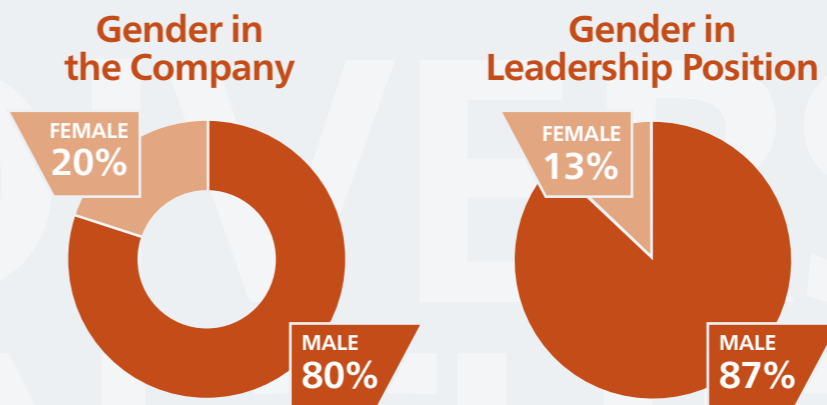
HR is the point of contact between management and team members. In this function, we negotiate and agree on reliable rules for the team members. In addition to the Employee Life Cycle, we have made it our task to manage culture within our company. Structural organization design as well as change management is one of the most important points in culture management. Sustainability in the context of HR involves integrating environmentally and socially responsible practices into various aspects. The role of sustainability in HR is multifaceted and can contribute to creating a more responsible and ethical workplace.

## Recruitment and onboarding:

In order to attract candidates who share our sustainability values, we communicate those values in job postings and during the recruitment, hiring and onboarding process. We are committed to creating a professional work environment where our colleagues are treated with respect and where there is zero tolerance for illegal behavior, discrimination or harassment based on gender, age, race, ethnicity, religion, sexual orientation, disability or any other characteristic. We actively promote a culture of equality within the company, ensuring that no distinctions are made between team members. This approach ensures a professional working environment for all.

All decisions related to the selection process, hiring and employment are based on transparency, objectivity and other relevant factors, primarily qualifications and work performance. Our commitment to these values is reflected in the fact that there were no reported cases of discrimination in 2023.

# DIVERSITY IN THE WORKPLACE IN 2023



Strength lies in differences, not in similarities.

Workplaces that are perceived as diverse have the highest levels of engagement.



### Training and development:

Lifelong learning and the development of our team members are among our core priorities, demonstrated by our continuous increase in the training budget at all levels of the company (both internal, at our own Alltech Coppens Academy, and external). Both internal and external trainings are organized in coordination with managers, based on the defined development needs of team members and the business needs of the company. Special emphasis is placed on succession planning for key positions and targeted investments in the professional and personal development of our colleagues. This allows for the timely transfer and retention of essential knowledge and skills within the company. We ensure that team members are aware of the organization's sustainability goals and understand how their roles contribute to these objectives. Secondly, sustainable team member learning and development refers to a long-term and overall approach to promoting and developing team members' skills, knowledge and abilities.

### Rewards, benefits and payroll:

We value long-term and strategic approaches to compensating, managing and providing benefits to our team members, benefits that not only have short-term effectiveness but also contribute to the long-term well-being of team members and the overall performance of the company. This includes fair compensation, social benefits and support, transparency, and communication.

### Performance and evolution:

Our long-term strategies and practices foster the efficiency and growth of team members, both at an individual and organizational level. These strategies and practices include continuous learning and development, employee engagement, career development, health and well-being, ethical behaviour and corporate culture.

The success of Alltech Coppens is based on the strength, knowledge, motivation and dedication of our team members. Engaged team members think, feel and act in alignment with company goals, making it crucial to understand what motivates them and identify areas for improvement. To foster a culture of diversity and inclusion grounded in teamwork, cooperation, transparency and proactivity, Alltech Coppens focuses on enhancing internal communications, increasing informal gatherings, and creating opportunities for solidarity and engagement in socially responsible activities both inside and outside the workplace.

Two-way communication is vital, so colleagues are regularly encouraged to share suggestions, ideas and feedback through surveys, ensuring that their attitudes and expectations are integrated into planned initiatives. To further explore key elements of team member motivation and satisfaction, an anonymous satisfaction survey was conducted in 2023, with 60,3% of team members participating. The average score for feeling valued in the company was 74.2 out of 100. The survey revealed a prominent level of team member engagement, with the organization of work and internal processes receiving the highest ratings.

### Offboarding:

Sustainable offboarding in the context of team members refers to the systematic and considerate process of transitioning individuals out of our organization in a manner that promotes positive relationships, preserves institutional knowledge, and aligns with ethical and environmental values. Our approach to sustainable offboarding aims to minimize negative impacts on both departing team members and the company. In our offboarding procedures, we prioritize open communication, providing departing team members with clear information about the transition process, including details about their final responsibilities, their benefits, and the return of company assets.

We share our knowledge and experience with our stakeholders all over the world. We organize seminars on location, give presentations and hold webinars.

In 2023, our Alltech Coppens Academy organized 16 different courses. Each employee participated at least once in one of those courses.



# RESEARCH & DEVELOPMENT

**Our R&D team includes members of several departments at Alltech Coppens (Sales, Nutrition, R&D, Quality and ACAC technicians). The questions and needs of our customers are central to our R&D activities.**

As we place great importance on research, we ensure that it is well organized and effectively integrated into overall business operations. This approach means that we can cater to all market demands. Priorities are set, and trials are evaluated on a nutrition-driven basis. The nature of our approach means that results are applied quickly and easily within nutrition.

The nutrition department is “the spider in the web” in terms of data collection and applying this to products. Data from research is translated into recipes, data from the market is used to evaluate products, and data from operations is used to improve quality.

To meet our customers’ needs and ensure continued success in their business, we develop new and innovative nutritional solutions. The main steps in this area are:

- Feed ideation: Creating innovative ideas for feeds, based on market research, consumer requirements and new raw materials.

- Feed design and prototyping: Designing early versions of the feed and building mock-ups and prototypes to check functions, features, and fitness for the purpose. This all takes place at the Alltech Coppens Aqua Centre.
- Testing and improvement: Trying out different iterations for the feed and integrating feedback into further development. This is done with different trials at the Alltech Coppens Aqua Centre.
- Finalization and specification: Providing the final feed specifications to our feed plant in Nettetal, Germany, once the feed formulation and performance are agreed upon.

All research conducted by Alltech Coppens is related to our “four pillars,” categories in which important measurables are brought together. We use these four pillars to translate customer needs into the most relevant research program. By quantifying the measurables in the available raw materials and defining the needs of the market, fish farm and consumer, we are able to design our feed in a more flexible way for the highest quality and the best results for our customers.

Science ► Research ► Applied Research ◄► Nutrition ◄► Technical Sales Support ◄► Customer

## THE 4 PILLARS MEASURABLE



**PALATABILITY**  
Taste  
Maximum feed intake  
Gut transit time



**PERFORMANCE**  
Digestibility  
Feed conversion ratio & growth  
Deformities, mortality & fish health  
Fillet coloration, quality and yield  
Nutrient retention



**POLLUTION CONTROL**  
Indigestible nutrients  
Physical feces properties  
Effect on water turbidity  
Non retained nutrients



**PLANET**  
Carbon footprint  
Sustainability score  
Fish-in-Fish-out  
Consumer health

**A trend that we have noticed for some years is that the industrial market is becoming more fragmented. In the past, we could supply all fish farms with our standard assortment. Nowadays, we see that more customers come up with their own requirements that the feed must meet. Partially, those requirements are focused on the question: How can I get more output and higher ROI out of my fish farm? On the other side, these customer requirements are also driven by the different certification standards which have been established in the past couple of years. Companies that are classified in our fourth pillar, Planet, are working with certifications like ASC, BAP, and other popular certifications.**



**In 2023, we reduced our global warming potential, including land use change, by 16% compared to 2022 by formulating our feeds along sustainable parameters.**



Based on the fourth pillar, we instituted a project to develop sustainability scoring for our feeds. With this scoring, we are able not only to rank one type of fish meal, but all forms of raw materials. This results in a score-ranking for feed. The score-ranking is established by a life cycle assessment (LCA) using several databases, such as that of the Global Feed LCA Institute (GFLI). Utilising data sourced from the GFLI and BLONK databases and extensive research in our research center, we evaluated all raw materials used, which resulted in an environmental profile of the ingredients. Based on a number of criteria, such as climate change, water and land use, and soil acidification, Alltech Coppens then created sustainability scoring for all the industrial feeds.

Although this database was quite extensive, another endpoint called “marine resource sustainability” was added to account for effects related to fishing, making the data more applicable to our industry. Also, the final feed scoring is further corrected by the growth potential of the fish for that specific feed, making this scoring also applicable for the situation on-farm. With this scoring system, we were able to quantify our environmental impacts to investigate how sustainable we actually are, and we started undertaking action immediately to improve. In 2023, we reduced our global warming potential, including land use change, by 16% compared to 2022 by formulating our feeds along sustainable parameters.

Following this project, multiple team members successfully passed a minor course on LCAs from the HAS Green Academy in the Netherlands, and one just started her Ph.D. on this subject. The aim of the Ph.D. project is to explore the use of LCAs to quantify the sustainability impacts of aquafeeds and the raw materials from which they are derived, as this is a critical component in supporting the sustainable growth and intensification of the aquaculture industry. The overall setup of this project is to follow the aquafeed value chain, where we will look at raw materials, feeds, and how the feeds impact at farm level.

# ALLTECH COPPENS AQUA CENTRE

**The ACAC (Alltech Coppens Aqua Centre) is recognized by Alltech as its fourth bioscience centre. In the past 24 years, the ACAC has conducted hundreds of in vivo fish trials.**

In 2023, several improvements were made at the ACAC to get the facility closer to its ambitious goal of going climate neutral by 2025.

The state of the ACAC prior to the end of 2023 was that energy efficiency was not optimal. Certain systems with different temperatures shared one room, and the outer walls of the hallways did not have good insulation. Another issue that we had to tackle was our way of heating the research systems as well as the building, both of which were, to a large extent, relying on gas.

To get closer to our goals, we started insulating our systems by creating "climate chambers" for the different trial systems. This was done to lower the volume to which energy can be lost and to protect the systems from seasonal temperature gradients in the hallways. Further on, we started to install heat exchangers to reduce our dependency on gas.

These adjustments resulted in a total energy savings of 41% in 2023 when compared to 2022, even with more trial days conducted in 2023. Also, we reduced water usage by 37% in 2023 by adjusting work processes.

Farther away from the core business of the Alltech Coppens Aqua Centre, the ponds of the outside area of the research facility were adjusted by creating islands planted with native shrubs and trees to give shelter to a variety of water birds and amphibians. This attracts more biodiversity and creates more retreats for a variety of animals at our compound.

In 2023, the ponds at ACAC were reconstructed. In 2024, we are partnering with an internship project to investigate the bird species present at the ACAC compound. This is the first time such a study has been conducted, and we are eager to see what insights nature will reveal.

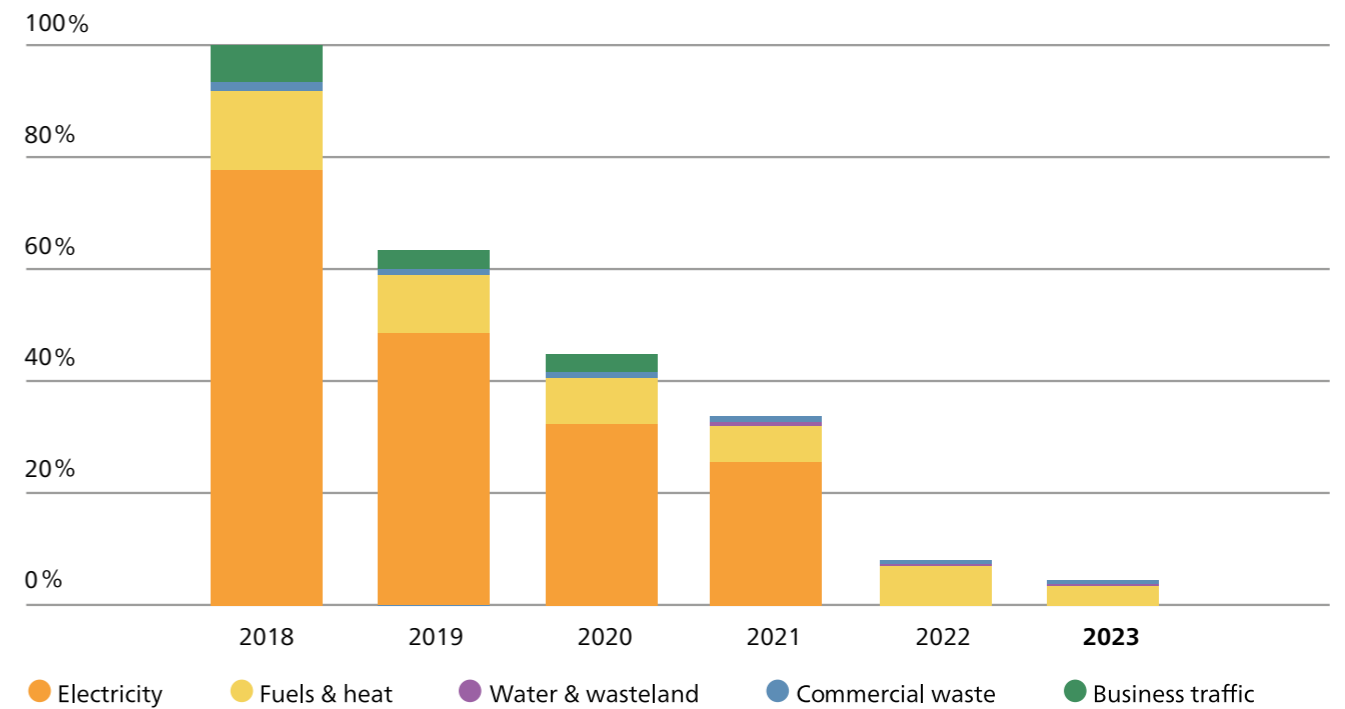


**We are looking forward to further improving in 2024 by installing additional heat pumps that will keep us completely independent from fossil energy sources. This independence will cover both the research systems and the office building as well. Also, the ACAC is currently busily insulating the remaining research systems, an initiative which will be realized by the end of 2024.**

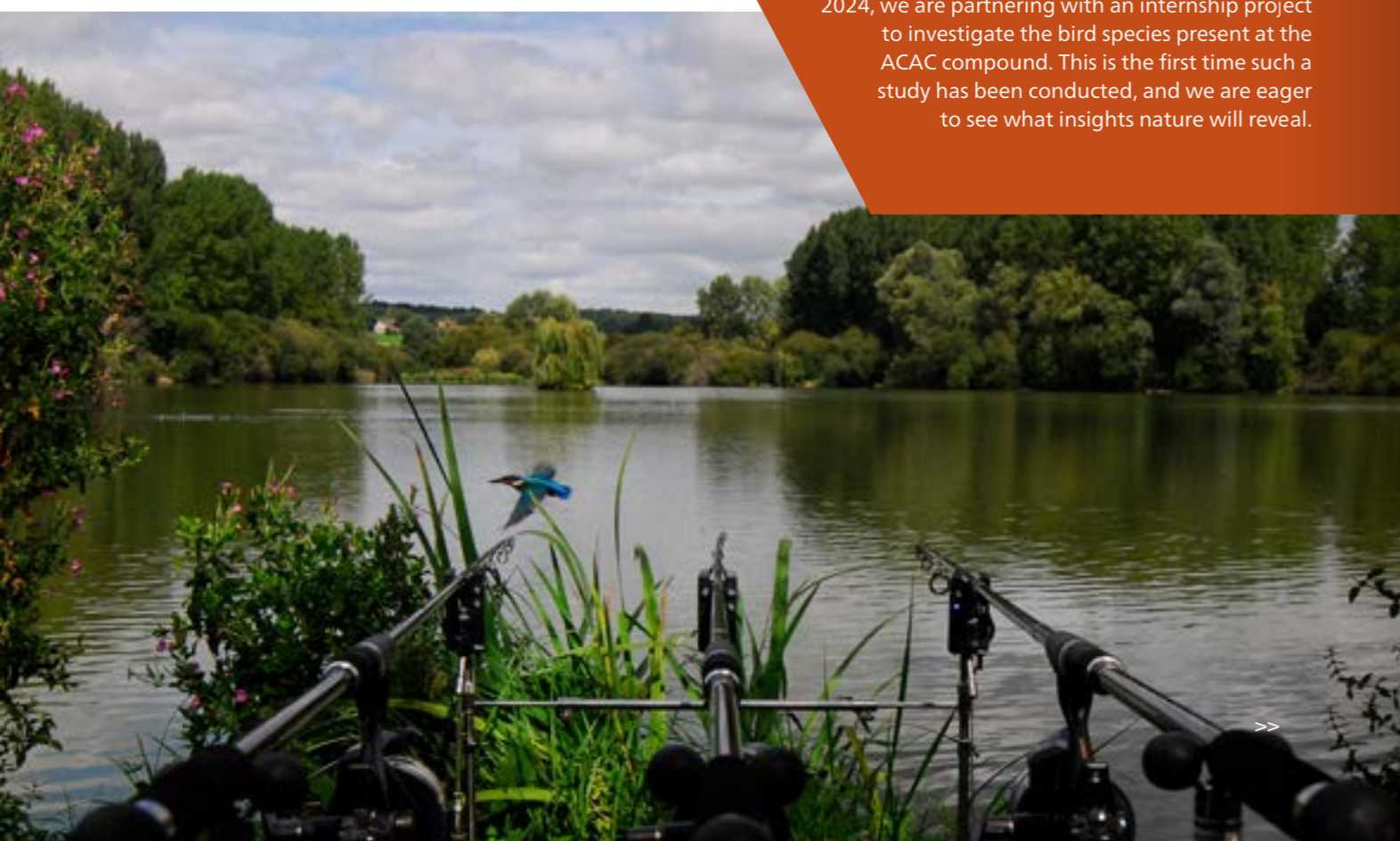
In 2022 we made the switch to green electricity. Even though the Alltech Coppens Aqua Centre is only using green energy, one of the biggest projects the location is

currently facing is the planned installation of solar panels, which are expected to cover a big part of the energy demand of the research facility.

The chart below shows the distribution of the environmental impact per trial day. The calculated environmental impact is the combination of environmental damage such as fine dust, acidification and the greenhouse effect. The environmental impact of the first year in the chart (2018) is set at 100%. This chart is calculated per trial day, which makes the outcome less dependent on the size. Therefore, the outcome is more comparable to previous years and/or other companies.



In 2024, Alltech Coppens has budgeted for 25 trials at the ACAC, divided between the nine high-standard RAS systems. A diverse range of trials will be conducted, from 6 to 27 degrees °C water temperature, from tilapia to eel, and from larvae to broodstock fish.



# PROCUREMENT AND SOURCING

The Procurement department plays a crucial role within Alltech Coppens, primarily focused on managing the process of acquiring goods, services or works from an external source. All team members within the procurement department successfully passed the sustainable procurement courses from EcoVadis in 2023, to ensure that we are making the right and sustainable decisions.

## Some of the key responsibilities and roles of the Procurement team include:

- **Sourcing and supplier management:** Identifying potential suppliers, evaluating their capabilities, negotiating contracts, and managing the relationships with existing suppliers.
- **Cost management:** Ensuring that goods and services are procured at the most competitive prices, aiming to achieve cost savings and efficiency without compromising on quality.
- **Risk management:** Assessing and mitigating risks associated with the procurement process, such as supply chain disruptions, price fluctuations and quality issues.
- **Contract management:** Drafting, negotiating and managing contracts with suppliers to ensure compliance with terms and conditions, as well as legal and regulatory requirements.
- **Market research and analysis:** Conducting market research to stay informed about market trends, supplier capabilities, and innovations that could impact procurement decisions.
- **Sustainable procurement:** Integrating sustainability criteria such as ethical sourcing, environmental impact and social responsibility into the procurement process to support the organization's sustainability goals.
- **Inventory management:** Coordinating with other departments to ensure that inventory levels are maintained at optimal levels, preventing overstocking or stockouts.
- **Process improvement:** Continuously evaluating and improving procurement processes to enhance efficiency, reduce costs and streamline operations.
- **Compliance and ethics:** Ensuring that procurement activities adhere to internal policies, industry regulations and ethical standards, promoting transparency and fairness in the procurement process.
- **Supplier diversity:** Promoting supplier diversity by working with a diverse range of suppliers, including small businesses, minority-owned businesses, and women-owned enterprises, fostering a more inclusive supply chain.
- **Relationship management:** Building and maintaining strong relationships with both internal stakeholders and external suppliers to ensure effective collaboration and communication throughout the procurement process.

Overall, the Procurement department within Alltech Coppens plays a pivotal role in optimizing the supply chain, controlling costs, and ensuring that Alltech Coppens has access to the necessary goods and services to support our operations and strategic objectives.

# SUPPLIER ASSESSMENTS, REGULATIONS AND QUALITY STANDARDS

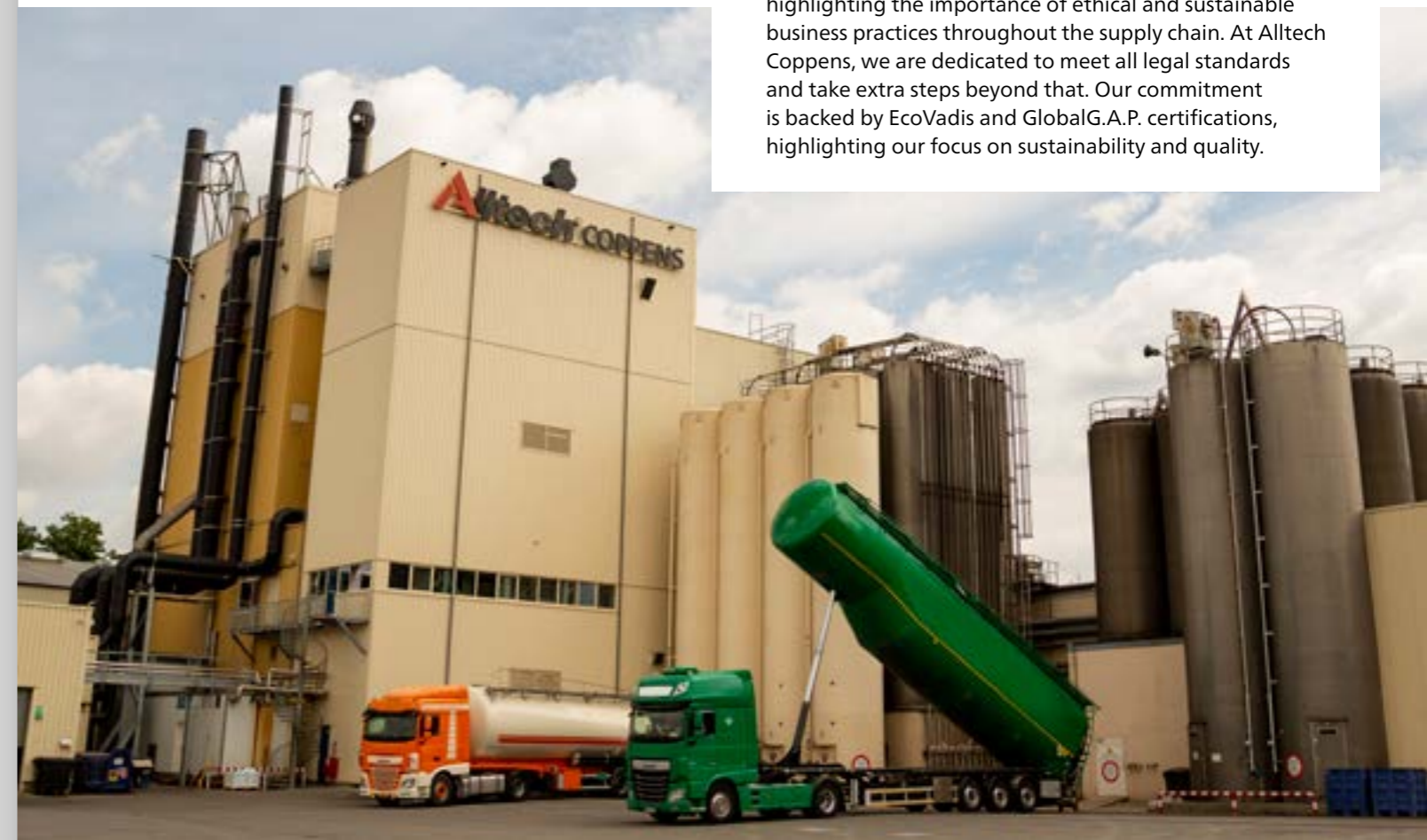
The Lieferkettensorgfaltspflichtengesetz, often referred to as the Supply Chain Due Diligence Act, is a German law that imposes certain obligations on companies regarding the monitoring and compliance of human rights and environmental standards within their supply chains. It was passed in 2021 and represents an effort by the German government to address issues related to human rights violations, child labor, and environmental degradation associated with global supply chains.

The law requires companies to take responsibility for their entire supply chains, including their direct suppliers and subcontractors, by implementing due diligence measures to identify, prevent and mitigate risks related to human rights abuses and environmental harm. This includes conducting regular risk assessments, implementing risk management systems, and taking corrective actions if violations are identified.

Under the Lieferkettensorgfaltspflichtengesetz, companies are expected to:

1. Conduct regular risk assessments to identify potential human rights and environmental risks within their supply chains.
2. Implement risk management systems and measures to prevent and address any identified risks.
3. Establish grievance mechanisms to provide affected parties with a channel to raise concerns and seek remedy.
4. Publish annual reports detailing their compliance with the law and the measures taken to address any identified risks.

Companies may face penalties if they fail to comply with the requirements of the law. Currently, this law applies only to companies of a certain size, typically those with over 3.000 employees, and it impacts a wide range of industries that rely on global supply chains. The introduction of this law reflects the increasing global focus on corporate responsibility and sustainability, highlighting the importance of ethical and sustainable business practices throughout the supply chain. At Alltech Coppens, we are dedicated to meet all legal standards and take extra steps beyond that. Our commitment is backed by EcoVadis and GlobalG.A.P. certifications, highlighting our focus on sustainability and quality.



# PROCUREMENT AND CORPORATE SOCIAL RESPONSIBILITY

Alltech Coppens engages in ethical trading, with emphasis not only on its own efforts but on those of the suppliers with whom we partner to ensure top-quality products and services using leading-edge and proprietary technologies. The suppliers with whom Alltech Coppens wishes to build stronger partnerships are businesses that comply with laws, regulations and social standards. Alltech Coppens conducts its procurement based on the concepts below while building mutual trust and high-quality partnerships with suppliers:

- The products delivered to Alltech Coppens are in compliance with the requirements of the EU legislation.
- The products delivered to Alltech Coppens are in compliance with the requirements of the local laws in the country of origin.
- The products delivered to Alltech Coppens meet quality standards as mentioned in the supplier product specification.
- The products delivered to Alltech Coppens are free from genetically manipulated organisms, except when Alltech Coppens indicates otherwise.
- All plant ingredients delivered to Alltech Coppens are sourced via supply chains that will protect ecosystems from land conversion and deforestation, with a cut-off date no later than January 2021.
- The feed ingredients delivered to Alltech Coppens do not come from fish species that are categorized as vulnerable, endangered or critically endangered, according to the IUCN Red List of Threatened Species.
- The used packaging of the delivered products has to be conform to EU legislation.
- The working conditions in the country of origin of the products delivered to Alltech Coppens are in compliance with the Ten Principles of the United Nations Global Compact (see: <https://www.unglobalcompact.org/what-is-gc/mission/principles>).
- The vehicle in which the product is delivered is in a hygienic condition. This means the bulk is cleaned properly (according to IDTF) after each transport. It is dry and in a visibly good condition.
- Alltech Coppens is to be informed immediately if there is any risk reporting on one of the delivered products.

Alltech (Coppens) is committed to conducting business in accordance with all applicable laws and regulations of countries in which it operates and in accordance with international standards of ethics. This commitment is extended through to our supply chain and any other service provider which engages in business with Alltech.

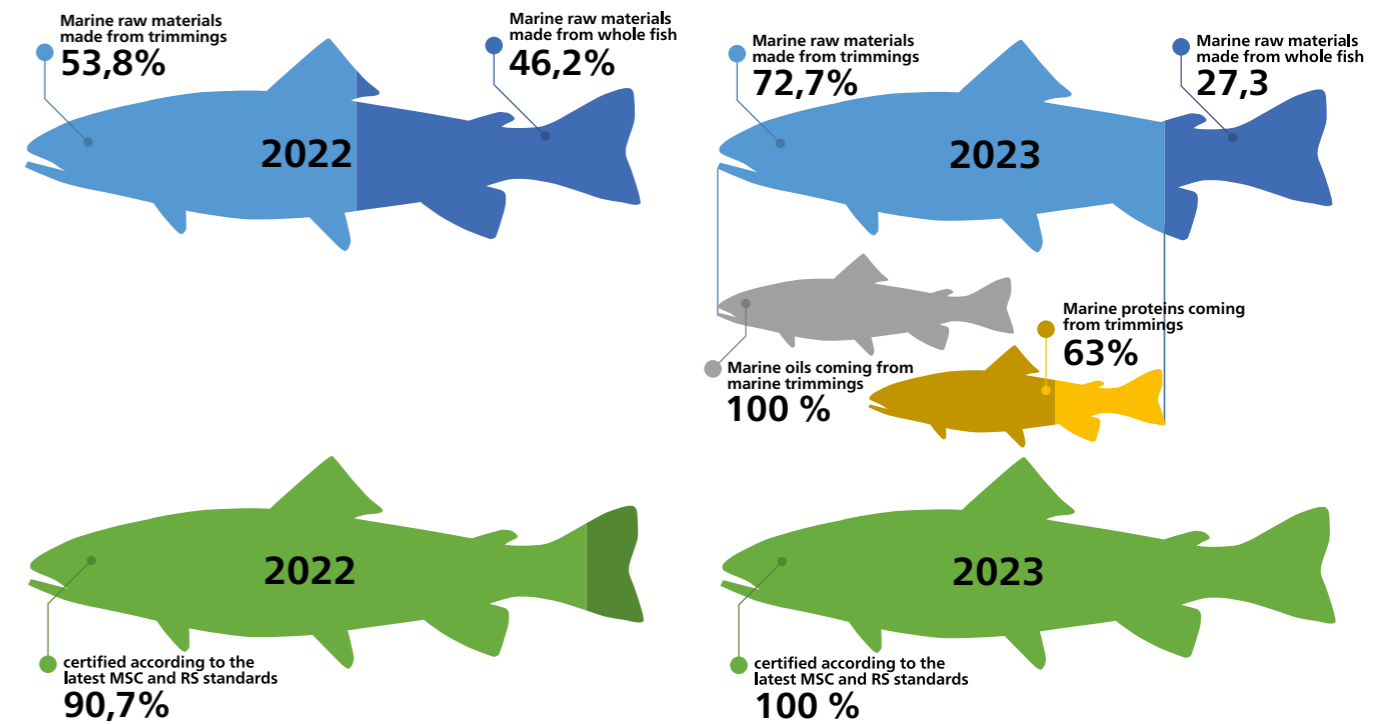
In accordance with our sourcing policy, Alltech Coppens requires all marine ingredient producers not to use in the production process any fish species, and/or byproducts of fish species, that are categorized as endangered or critically endangered according to the IUCN Red List of Endangered Species. We give priority to marine ingredients that are certified according to the IFFO Responsible Supply (RS) and/or Marine Stewardship Council (MSC) Standard and/or are completely made from byproducts. In addition, Alltech Coppens requires that our soybean products be certified under Proterra or the Roundtable on Responsible Soy Association (RTRS) and that they come from Europe.

If the supplier fails to meet the standard required within this code or fails to rectify any issues or improve performance, then Alltech (Coppens) reserves the right to suspend purchasing from the supplier, or in severe cases, to terminate our relationship with that supplier for contractual breach.

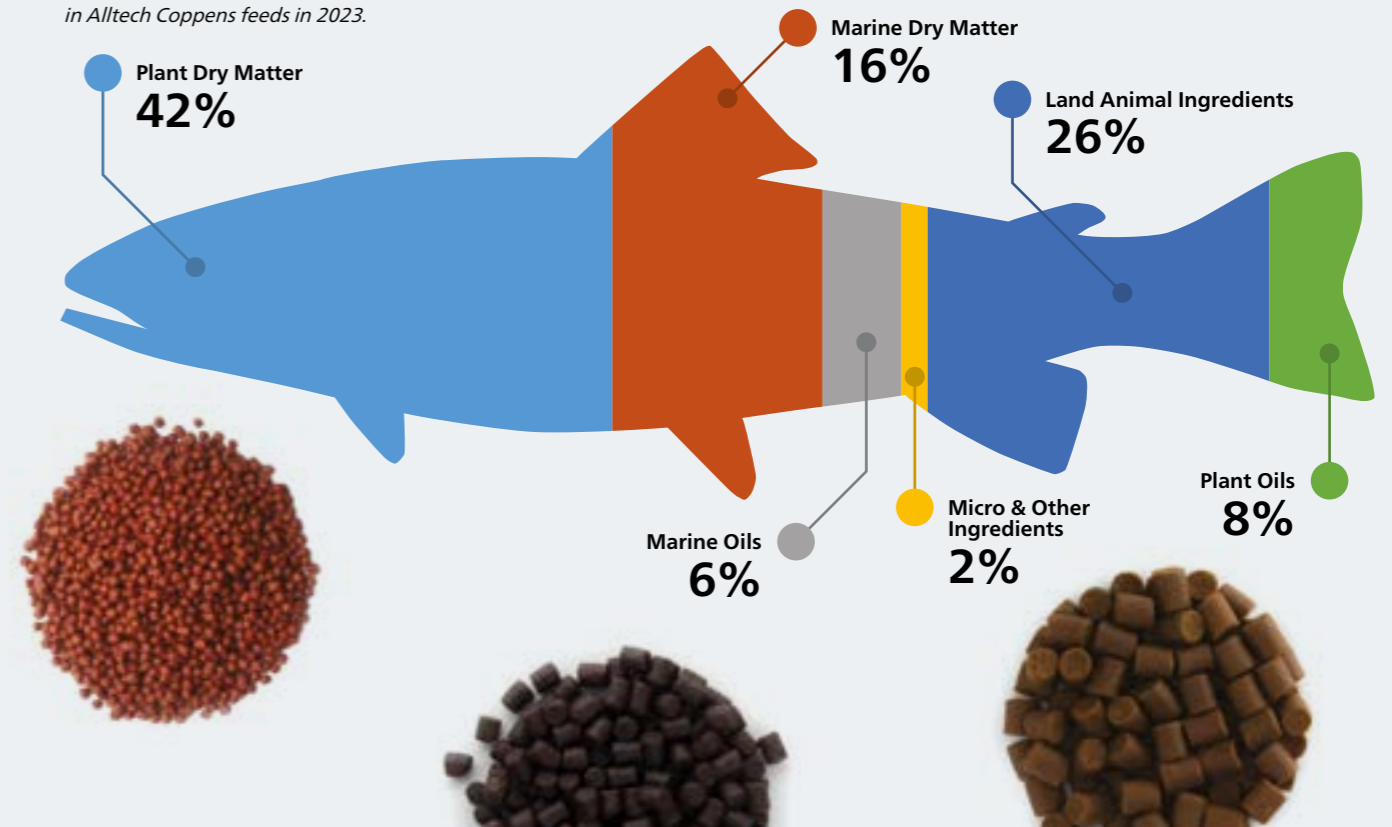


Last year (2023), all our marine oils came from marine trimmings, and 63% of our marine proteins were made from trimmings, which makes a grand total of 72,7% of our marine raw materials in 2023 that were made from trimmings (versus 53,8% in 2022). The remaining 27,3% was made from whole fish, which was 100% certified according to the latest MSC and RS standards (compared to 90,7% in 2022).

In 2023, 92,3% of our raw materials were produced within Europe, compared to 86% in 2022. 29,7% had a German origin, and 65,2% came from Germany and its neighbor countries (compared to 64% in 2022). Within Alltech Coppens, we always try to source our raw materials as locally as possible. All our raw materials are GMO-free. 23% of our raw materials were made from land animal byproducts in 2023. So instead of throwing the slaughter disposals away, they are further processed into raw material for the (pet) feed!



Composition of the raw materials used in Alltech Coppens feeds in 2023.



# CIRCULAR AND RESTORATIVE RAW MATERIALS

Circular raw materials are sourced from waste or byproducts, as defined by the EU waste framework directive. Scientific methods, such as life cycle analysis (LCA), enable us to calculate the carbon footprint of all our raw materials.

An LCA looks at the complete production cycle up until the end of life for a product. It is a tool to evaluate the potential environmental impacts of a product: the material or resources, the processing of the materials, the processing of the product, the distribution/transportation, the usage, and the end of the product (disposal or reuse). An LCA is a tool that is used to support decision-making for sustainable development, and it helps to promote sustainable design of products and processes, leading to reduced overall environmental impacts.

In 2023, 56,2% of all the raw materials used by Alltech Coppens were circular and restorative raw materials, following the definition of the EU waste framework directive.

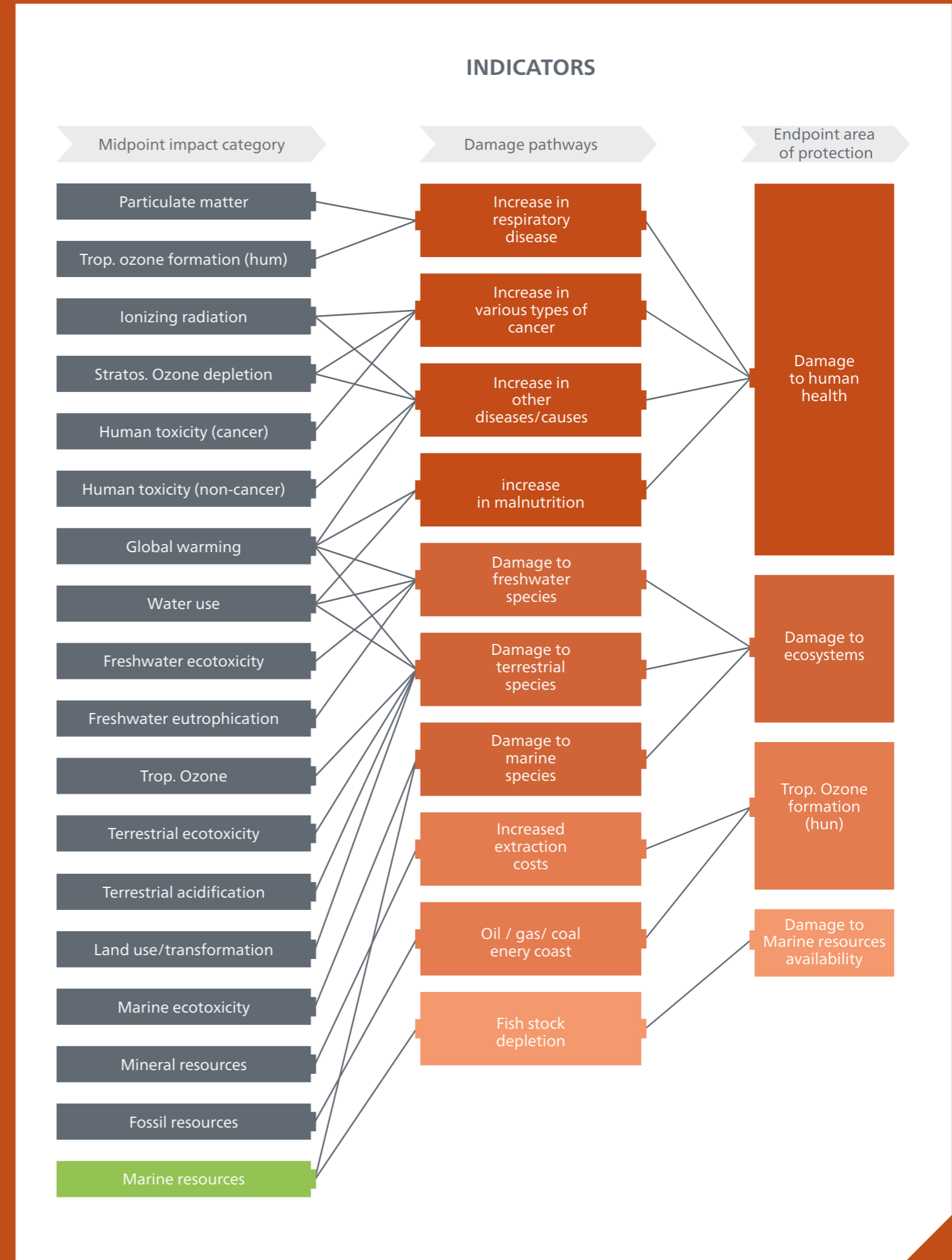


One of our circular suppliers is the Spanish producer Conresa, which produces fish meals and oils from fish byproducts. These meals are prepared daily by the canning factories in the closest environment for human consumption, and they are processed in just a few hours, to obtain finished products of maximum freshness and quality. Conresa has one of the most modern factories, and their activity is linked to the circular economy and is focused on permanent supply, innovation, quality and sustainability.



Within Alltech Coppens, we have realized that there is a carbon "tunnel vision," and sustainability is much more than a carbon footprint only. We should also look at other different parameters to quantify the sustainability of our feeds. Sustainability is in transition, moving from carbon footprint to more indicators. So we started looking beyond carbon emissions to marine resource sustainability, global warming potential, acidification, ozone formation and depletion, etc., as shown in the following grey boxes.

Within the aquaculture sector, usage of fishmeal and fish oil in feed is often referred to as problematic because of its relation to depletion of ocean fish stocks and also to ecosystem damage which is not included in the standard LCA method. Therefore, we created the midpoint impact category called marine resources, the damage pathway fish stock depletion, and the endpoint damage to marine resource availability, to make this method more suitable to our industry. The data that we used for scoring the raw materials using LCA came from the GFLI and BLONK databases.



# OPERATIONS

This is the part of the supply chain that turns our ideas, orders, and diverse types of raw materials into finished feed that we can deliver to our customers. Our production facility in Nettetal takes the incoming raw materials and turns them into production runs that create physical fish feed. Getting this right means producing quickly and at the appropriate quality and cost. Finished feed then moves into the logistics and shipping process for onward distribution.

Within our production, we reuse the steam coming from the extruders for heating the dryers and our liquid raw material tanks. We use the same principle for the air. In addition, we use outside air for our coolers and, after passing the cooler, this warm air is used in our dryers.

In our operation, we have five main aspects for our operational excellence:

- 1 Respect:** This is valued from the top down as well as the bottom up. We encourage open discussions within and between departments. We follow procedures and act as has been agreed.
- 2 Safety:** We constantly increase the knowledge and awareness level of our team members, resulting in a safe environment.
- 3 Sustainability:** Sustainability is increasingly important worldwide and for Alltech, which has a purpose of Working Together for a Planet of Plenty™. This is the reason that sustainability is the third pillar in operational excellence for Alltech Coppens.
- 4 Quality:** To achieve even higher quality of our solutions and services, we improve the knowledge of our team members about our technologies and the possibilities of our equipment for improvement.
- 5 Efficiency:** We work to increase the knowledge of our team members about the equipment they are working with, increase the reliability of our plant, and invest in new possibilities, with an overall result of decreasing cost.



## RESPECT

Respect is important to achieving goals or targets together. It is top-down and bottom-up. It also means that one department is on the same level as any other. Only when we respect one another is it possible to find solutions together for problems or challenges. This gives results in safety, sustainability, quality, and efficiency; in

other words, it yields operational excellence at Alltech Coppens. In 2023, we did a survey of our team members, asking what they thought about respect in our company, among other topics. With the seven questions related to respect, Alltech Coppens had an overall score of 7,43 out of 10.

## SAFETY

Safety is a very important topic in the plant and for sure in the Operations area. Safety issues are not solved by a few team members; rather, we all work together. (ArbeitsSchutzAusschuss).

Since June 1, 2020, Alltech Coppens has been supported in occupational safety issues by the company Arbeitssicherheit-MG. This company conducts tasks in accordance with the Occupational Safety Act and instructs and advises on questions of health protection and occupational safety. In addition, the occupational safety specialist checks and observes in collaboration with the company doctor and the safety officer. Moreover, the specialist provides all the necessary information required to conduct the work properly. Also, Arbeitssicherheit-MG conducts company inspections or workplace inspections upon prior appointment.

The following activities are included in the support provided:

- Four occupational safety meetings/year; moderation, including documentation
- One inspection per year of each individual workplace, with the company doctor including documentation
- Creation and revision of the risk assessment
- Creation of operating instructions
- Creation of all occupational safety documents (order documents/checklists)
- Workplace assessments/measurements (light/noise/climate)
- Team member training, including documentation
- Provision of the services of a hazard protection officer, including the required documentation
- Support with qualification measures
- Consideration of occupational safety concerns in operational processes

- General advice to managers on occupational safety issues
- General advice on the necessary use of personal protective equipment
- Investigation of work accidents (including documentation for the "Berufsgenossenschaft"
- Support with the obligation to report to authorities and accident insurance providers
- Advice on legal bases, state-of-the-art and occupational medicine, scientific findings
- Participation in company meetings

In accordance with the Occupational Safety Act (ASiG), Alltech Coppens not only has to appoint an occupational safety specialist and a company doctor, but also has to set up an occupational safety committee (ASA-Team). The purpose of the ASA-Team is to create a communication network of all relevant decision-makers and occupational safety specialists and thus enable a regular exchange on all topics relevant to occupational safety. The ASA-Team has monthly meetings. The following topics are included within the ASA-Team:

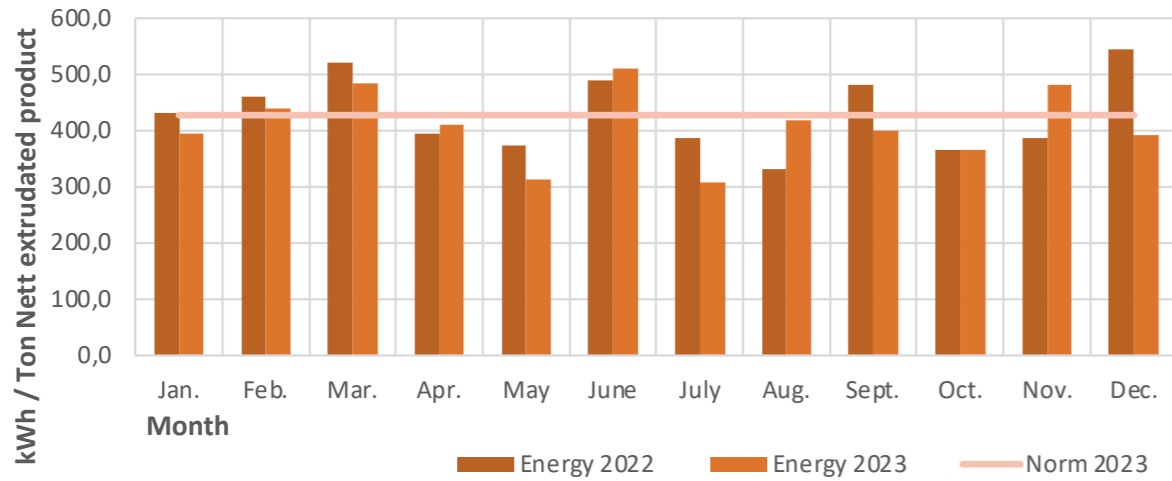
- Safety and health during the decision-making and buying processes
- Derivation of measures to prevent work accidents, occupational diseases and work-related health risks and consequences
- Analysis of accidents and occupational diseases
- Determination of measures based on further findings from occupational health prevention
- Planning and discussion of the results of measurements

The goal of the ASA-Team is to have a regular information exchange regarding health and safety and to prevent mistakes already in the planning process.



# SUSTAINABILITY

Energy 2023



Sustainability is especially important within our daily business. Like safety, it is not solved by a few team members; we are all in this topic together. Besides our sustainability team (POP-Team), we have an energy team too. This team, together with external advisors, is looking for possibilities to reduce energy consumption, following

the standards ISO 50.001;2018. This norm asks for better insight into our energy consumption. We do have to decrease the amount of used energy per ton of product produced. The norm for 2023 was 0.5% less kWh per year compared with 2022 levels. We managed to achieve a decrease from 429,9 kWh to 409,4 kWh, which is 4,77%.

In 2023, we joined the Greenliner project from the Optimum Group. With this project, all release liners from all our labels are recycled. A release liner is a layer in a label roll or sheet that carries the pressure-sensitive label material until it is ready for its next step. Sometimes called a "carrier" or a "backing," release liners hold on to or carry the sticky substrate until whatever they're carrying is ready to be released.

A significant key performance indicator (KPI) falling under Operations, is water usage per 1.000 kg of fish feed produced. This KPI measures the total volume of water utilized in the manufacturing process during a year. Given the increasing global concerns about water conservation and the sustainability of resources, monitoring water usage is critical in modern manufacturing. High water usage can lead to increased operational costs and potentially to adverse environmental impacts, contributing to the organization's overall ecological footprint. In our base year of 2021, our total average water usage was 539 liters per 1.000 kg fish feed. In 2023, this was unfortunately 9% higher, with 587 liters per 1.000 kg fish feed. One of the main reasons for this was the installation of a new biobed odor reduction system, which is using water for filtration too.

**Greenliner Certificaat**

Alltech Coppens GmbH  
recyclet liner in overeenstemming met Optimum Group™ Greenliner Programma.

- 912 kg CO<sub>2</sub> reductie
- 4.080 liter water
- 6 bomen voor ander gebruik
- 1 vlucht van Amsterdam naar New York

1 pallet backingmateriaal = 480 kg liner

"Together we change the future of labels & flexible packaging solutions"

Optimum Group

# QUALITY

In 2023, we implemented 5S in most of our departments. At this moment, the team members have a part of our factory that they are responsible for keeping safe and clean. In several places, we have hung up instructions for how the place should look.

the 5S's are: Sort, Straighten, Shine, Standardize, and Sustain. 5S serves as a foundation for deploying more advanced lean production tools and processes. Embedding 5S as part of daily tasks within your company means much more than improved organization, sustained cleaning routines, and efficient activity flows. By using the 5S methodology, operators are encouraged to improve their overall work environment and reduce muda or waste.

5S is a five-step methodology that, when followed, creates a more organized and productive workspace. In English,

# EFFICIENCY

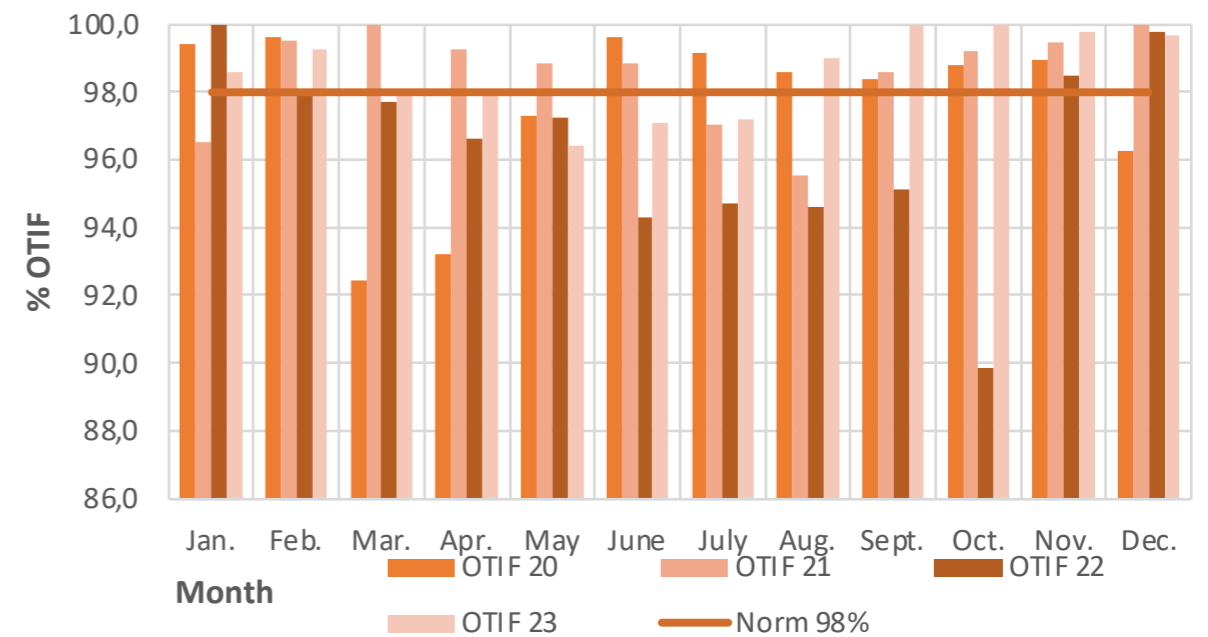
## Equipment

In the Maintenance department, we work with a tool called Ultimo. Ultimo knows which equipment we have and how often each piece of equipment, or each part, must be maintained. It contains information about separate parts we need, like bearings, motors and filters. Also, it knows where those parts are stocked and from which supplier they come. In 2022, we improved the information in this tool, and in 2023, we gave it the correct follow-up.

## OTIF

For five years, we have been focusing on OTIF, which is an acronym for "on time in full." OTIF is a metric used to measure the success of a company's delivery process. It calculates the percentage of on-time deliveries made in full, compared with all deliveries. It can be used as a performance indicator for suppliers, manufacturers and logistics companies.

OTIF 2023



In 2019, our OTIF performance stood at 95.7%. This improved to 97.7% in 2020, and further to 98.6% in 2021. However, in 2022, our OTIF dropped to 96.3%. This decline was largely due to our several price adjustments throughout the year, rather than the usual single annual adjustment, which led to peaks in customer orders. Additionally, raw material availability was more limited compared to previous years.

To address these challenges, we established a dedicated project team with the goal of restoring OTIF to at least 98%. Thanks to their efforts, we exceeded our target in 2023, achieving an OTIF of 98.4%.

# WASTE MANAGEMENT

Within Alltech Coppens, we have an extended waste management system. Our waste streams are carefully separated and then sent for further use or disposal via various external service providers. In 2023, the individual waste materials were assigned

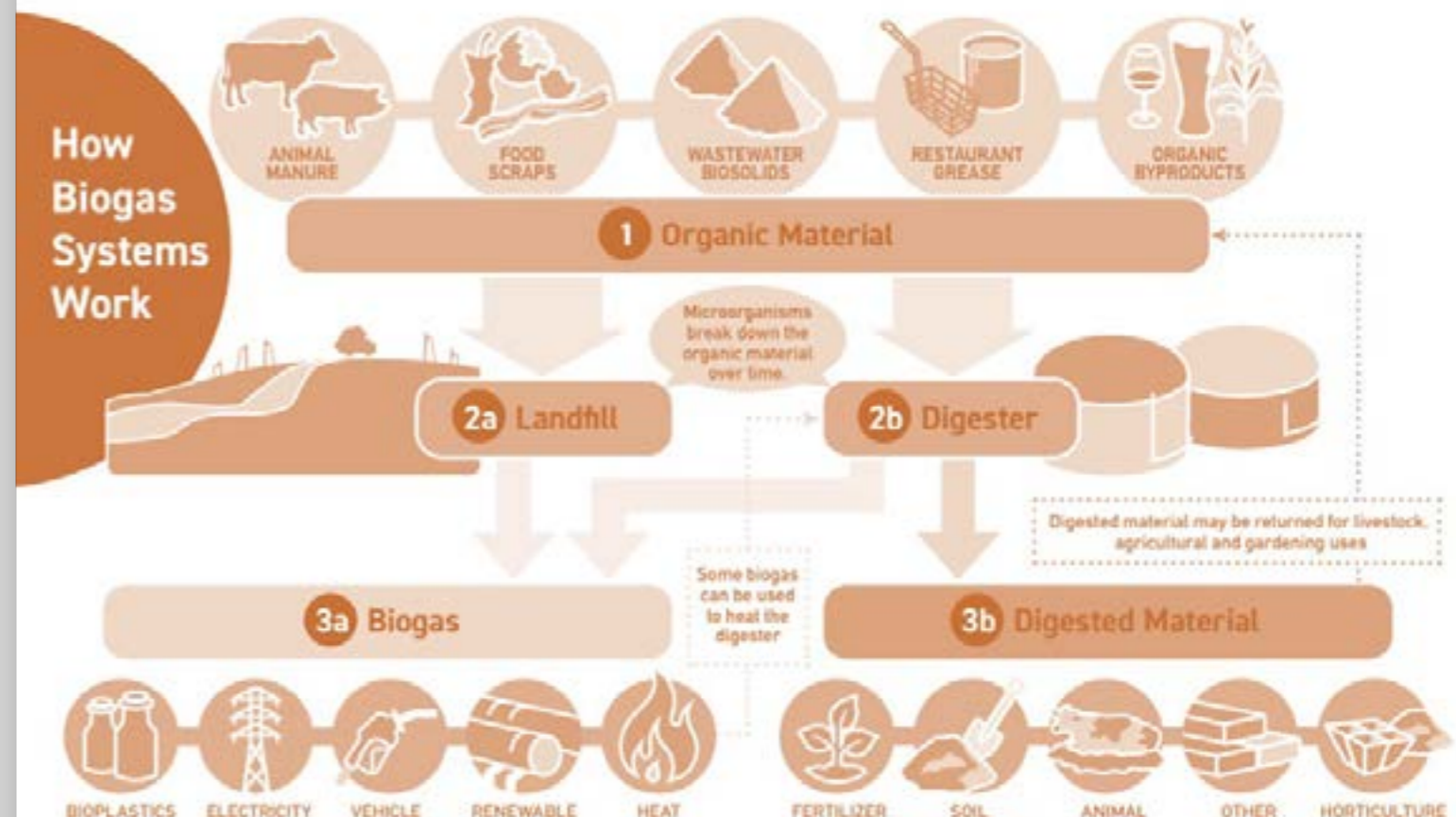
to one of 20 different waste classes and then disposed of. All waste streams, except the residual waste, have been reused or recycled. Compared to 2022, in 2023 we decreased the quantity of this specific waste stream by 35% (2022: 61,48 MT vs. 2023: 40,08 MT)

Desription	Quantity 2023	Unit
Grease separator	57,00	M <sup>3</sup>
Plastics	14,13	MT
Paper/ Cartons	19,05	MT
Mixed LDPE	16,85	MT
Big bags	27,98	MT
Standard LDPE	8,19	MT
Wood	1,00	MT
Impure LDPE	1,88	MT
Operating fluids	0,00	MT
Batteries	0,02	MT
Construction rubble	4,97	MT
Impure wood	6,73	MT
Residual waste	43,04	MT
Insulation	1,82	MT
Light tubes	0,07	MT
Electronics	0,80	MT
Mixed municipal waste	40,08	MT
Street cleanings	0,50	MT
Sewer cleaning	0,80	MT
Feed residues	536,26	MT



Alltech Coppens disposed a total of 536 tons of feed in 2023. This means that the leftovers were picked up by a waste disposal company and then used in a biogas plant. A biogas plant uses various work steps to generate electricity, gas and heat. The feed residues are introduced into a pre-pit and then mixed in the agitator. The mixed residues are then fed into the fermenter, where biogas is produced by stirring with a suitable agitator. This gas is used to generate electricity. The production process

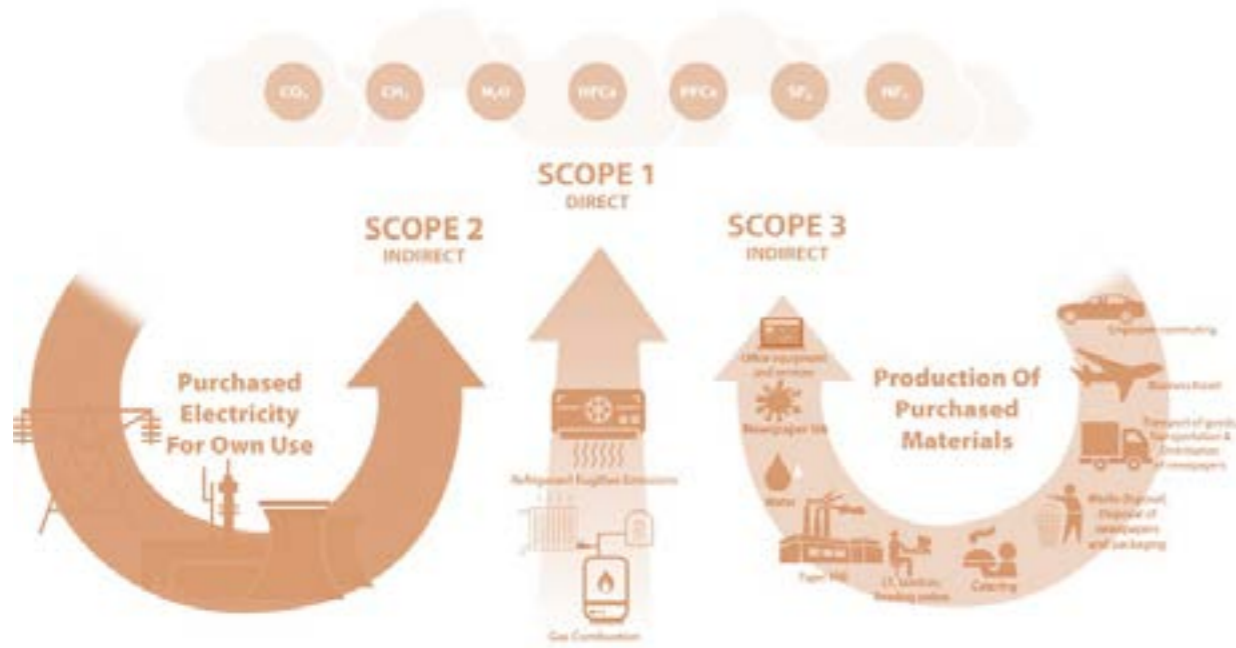
creates climate-friendly heat, which is used to heat buildings, while the biogas is used as fuel and heating. The fermented biomass is collected in the final storage facility and serves as a valuable odorless fertilizer. Biogas enables needs-based production, storage and further processing of the energy obtained, and it is independent of seasonal and daily influencing factors. Biogas reduces CO<sub>2</sub> emissions and therefore makes an essential contribution to climate protection.



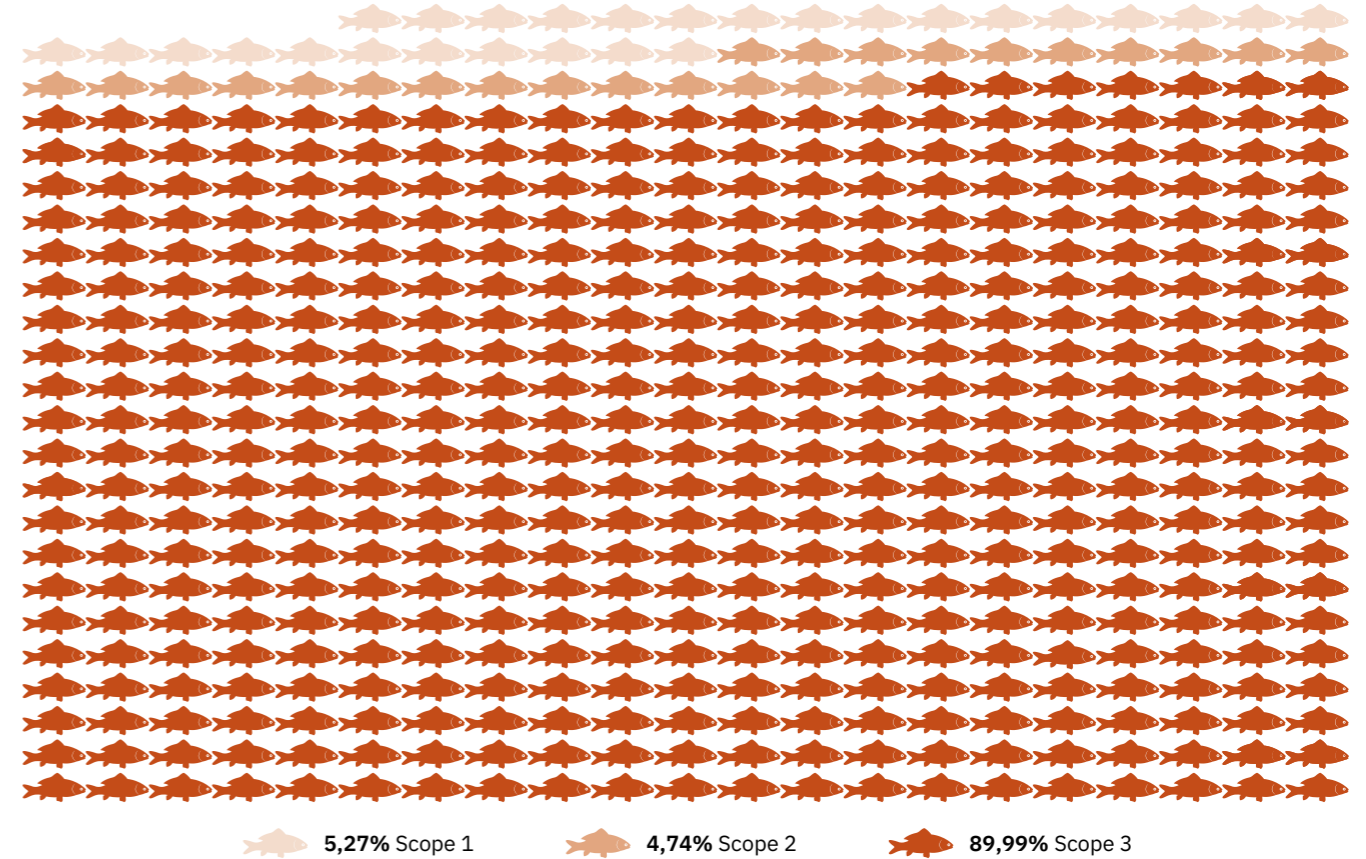


# EMISSIONS

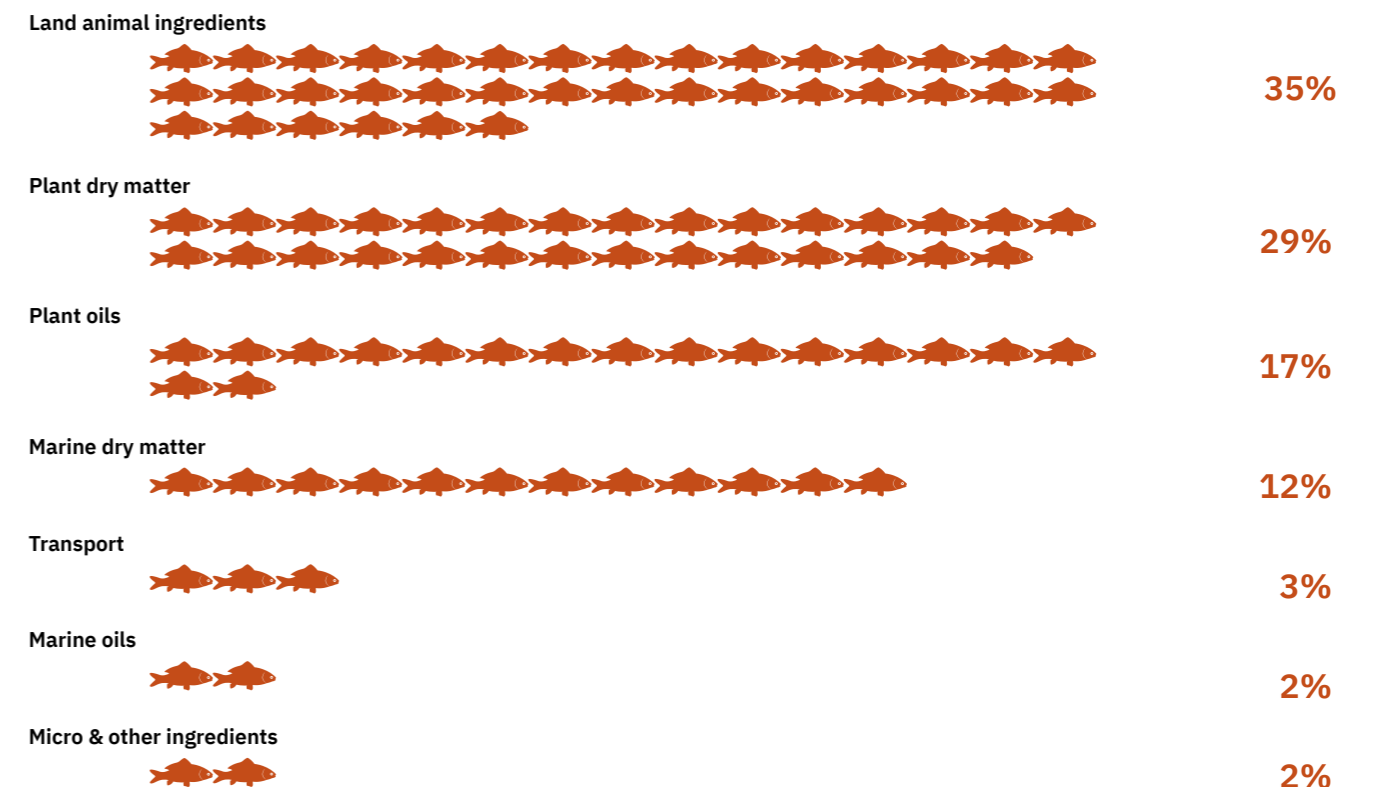
The carbon footprint (CF) of feed is a measure of the total greenhouse gas emissions generated from the various stages of the feed's life cycle. A CF indicates the product's impacts on the climate, particularly global warming, and is expressed as kilograms of CO<sub>2</sub> equivalent per tonne of produced feed. Alltech Coppens' CF is a cradle-to-gate assessment that follows the European Union Product Environmental Footprint methodology (<https://environment.ec.europa.eu>) and includes land use change. A company's greenhouse gas emissions are categorized into three scopes. Scope 1 covers direct emissions from company-owned sources, Scope 2 includes indirect emissions from purchased energy, and Scope 3 encompasses all other indirect emissions from the broader supply chain, such as raw materials, transportation, and waste.



In 2023, the average carbon footprint (CF) of Alltech Coppens feed was **1.19 tons of CO<sub>2</sub> equivalents per tonne** of feed produced. This represents a reduction from our 2021 baseline, which was 1.2 tons of CO<sub>2</sub> equivalents per tonne of feed. Breaking this total down: 5.27% of the emissions came from Scope 1, 4.74% came from Scope 2 and the majority, 89.99%, came from Scope 3.



## Scope 3 emissions breakdowns



# SALES

At Alltech Coppens we export to over 60 countries worldwide, with a strong presence across Europe, the Commonwealth of Independent States (CIS), and Western Africa. The sales department is split into two divisions: the home markets, covering Germany, the Netherlands, Belgium, France, Austria, and Switzerland, and the export department, responsible for all other countries.

After the industry's challenges in recent years, there was hope for stabilization in prices and raw material supply. However, during the first half of 2023, raw material costs stayed high, placing additional pressure on fish farmers and creating uncertainty around fish production due to ongoing price increases.

Another key factor affecting today's fish farming industry is climate change. Prolonged droughts and rising summer temperatures, which lead to higher water temperatures, have had a significant impact on outdoor farming operations. These conditions are increasingly challenging for our traditional, non-RAS (Recirculating Aquaculture System) customers.

At Alltech Coppens, we are committed to supporting and enhancing our customers' on-farm performance through exceptional service, our extensive network, and continuous product innovation. Through research and collaboration, we work hand-in-hand with our customers to create sustainable solutions. This commitment is embodied in our 'Total Concept 360' approach.

In 2022, we introduced the Alltech Coppens Ambassador Program, a loyalty initiative designed to recognize and reward our most dedicated customers.

To qualify as an Alltech Coppens Ambassador, customers must meet specific criteria, including a focus on sustainability. In 2025, we will host the next Alltech Coppens Ambassador Day, where our Planet of Plenty™ initiative will be a key topic.



## TOTAL CONCEPT 360

The "Total Concept 360" of Alltech Coppens goes beyond the traditional approach of simply providing fish-farming products to customers. Instead, it aims to provide a more complete and holistic solution.

By providing a holistic approach to fish farming, the program addresses a wide range of pain points and challenges that fish farmers can face. This includes not only the supply of products but also tailored services to improve every aspect of their operations. This could also include solutions in sustainability, improve the USP of their products, their fishes' health, and their marketing, so it's much more than just selling feed. It represents a more comprehensive and integrated approach to supporting fish farmers in their operations. In doing so, we at Alltech Coppens want to establish ourselves as a partner and differentiate ourselves from the competition. We want to keep making a significant difference to the farmer and improving customer retention.

As we advance our own sustainability journey, we stand by our customers in their dedication to responsible practices. Our customer Azerbaijan Fish Farm makes Baku caviar. The Baku brand represents a unique combination of modern technologies with the rich caviar production traditions of Azerbaijan. Azerbaijan Fish Farm has redefined luxury in a way that does not come at the expense of our planet, as everything is in strict accordance with the rules and regulations of the Convention on International Trade

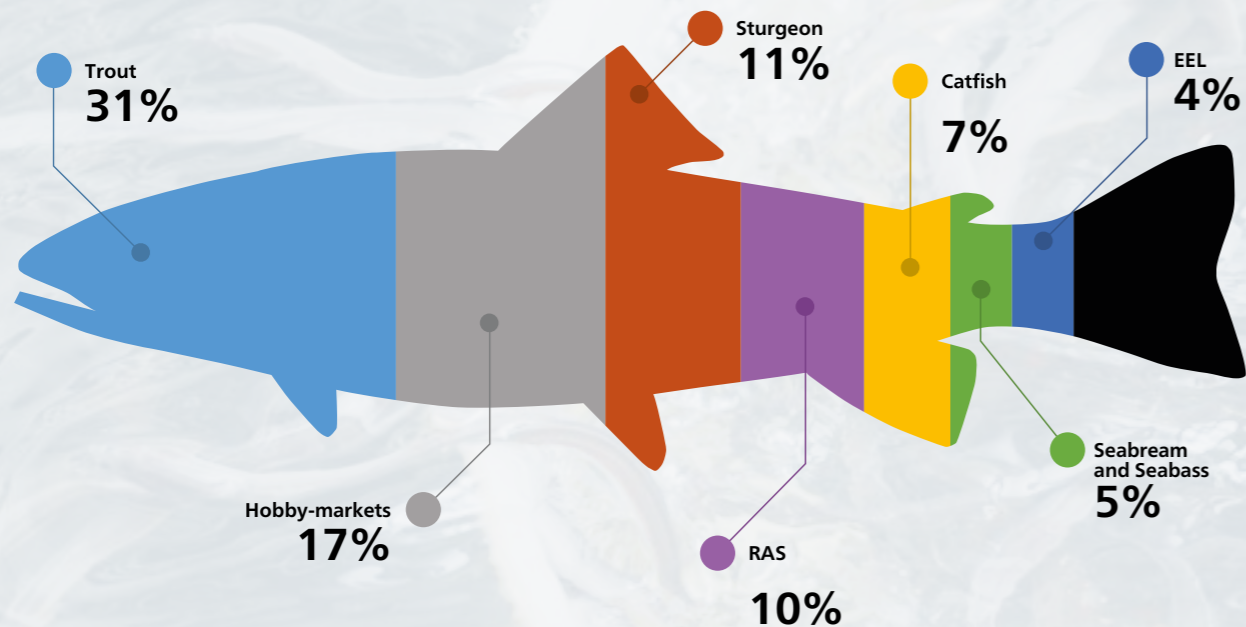
in Endangered Species of Wild Fauna and Flora (CITES). The company's commitment to sustainability and its mission to protect the environment, all while providing its customers with the finest caviar and merchandise, reflect our values.

In recent years, Alltech Coppens customer Claresse, has invested a lot in improving sustainability – with the use of heat pumps, solar panels, and improved waste management.

*"Straight after processing, we calculate our yields and feed conversion ratios (FCRs). These results are available in real time but also historically, which allows us to see which parents produce the best fish."*

-Frank Foolen-

Marketshare per species



Scan the QR code to watch the video about Claresse.



# BOOST CONCEPT

Alltech Coppens offers sustainable solutions for farmers. One of Alltech Coppens' latest solutions is the Boost Concept which helps dealing with the challenge of gills worms in fish farming.

### The impact of gill worms

Gill worms can create substantial problems for both marine and freshwater fish farmers. These gill parasites compromise the health of fish by affecting their breathing organs. With their own attachment organs, gill worms latch on to the sensitive gill tissues of fish, which results in complications like gill lesions, anemia, gill lamella alterations, excessive mucus production, accelerated breathing, hypoxia and inflammation. These issues also elevate the risk of secondary infections through other parasites and bacteria. Severe infections can lead to lethargy, poor feed intake and increased rates of mortality.

Two of the most common gill worm species are Sparicotyle chrysophrii and Dactylogyrus spp., which manifest widely in caged seabream farming and in freshwater catfish, eel and cyprinid farming. Both of these gill worms are hermaphroditic, egg-laying monogeneans that produce and release eggs on a daily basis. These eggs adhere to nets and tanks before hatching, and the free-swimming ciliated larvae can then reinfect the fish population. The life cycle of gill worms at the usual farming temperatures is quite short, and as a result, these parasites often spread quickly.



The conventional approach to combatting gill worms involves regularly conducting microscopic health checks and using chemical treatments when necessary. Although juvenile and adult worms can both be treated effectively, the resilience of gill worm eggs often leads to reinfections, resulting in poor health, growth issues, increased mortality rates and financial losses for fish farmers.

Sparicotyle chrysophrii

# Alltech Coppens Boost A COMPREHENSIVE SOLUTION

Along with strictly enforcing the proper biosecurity measurements and fostering optimal farming conditions, Alltech Coppens Boost has become an integral part of gill worm control for many farmers. A nutritional solution that helps keep fish healthy, Alltech Coppens Boost combines chelated minerals, Bio-Mos, Bioplex Iron, extra vitamins and a blend of plant extracts to strengthen the mucus barrier in the gills, which helps fish fend off anemia, boosts the immune response to parasites and supports a significant reduction in the number of gill worms present.



### Implementing Alltech Coppens Boost for sustainable gill worm control

Alltech Coppens Boost can be used before and during periods of gill worm issues, as well as year-round.

### Some of the main benefits of using Alltech Coppens Boost include:

- ✓ Up to 80% fewer parasites per gill arch
- ✓ Up to 80% decrease in the prevalence of gill worms
- ✓ Improved gill health
- ✓ Reduced mortalities
- ✓ Improved FCR and growth by up to 10%
- ✓ Fewer or no chemical treatments required



### Success story featuring a fish farmer in the Mediterranean

Watch the video here to learn how Alltech Coppens Boost has impacted this aqua operation, including a remarkable 80% lower prevalence and an 80% decrease in gill worms per gill arch!

"We have seen a significant reduction in gill worm infestations since adopting Alltech Coppens Boost."  
—Angus, Malta Fish Farming

Alltech Coppens Boost has a long-lasting impact on gill worm control and positive implications for all fish farmers. A sustainable and comprehensive solution to gill worm infestations, Alltech Coppens Boost is an integral component to ensuring the overall health and productivity of fish farms.

# OUR FUTURE

We are inspired by the great challenge the world has presented us — to produce enough safe, nutritious food for all while caring for our animals and sustaining our land, air, and water for future generations. Our natural resources may be finite, but human ingenuity is infinite.

What started as one company’s vision has become a call for collaboration. Our Planet of Plenty™ vision is a vision of promise, possibility, and positivity for the future. It is our belief that a world of abundance is achievable but will need all of us working together.

It is a vision that must be led by science, technology, and a shared will to make a difference — to plant trees we will never see grow. Sustainability means taking positive action today for the success of tomorrow. It is a pursuit where there is always room for improvements leading to new ideas.

*“As a global company spanning the entire food supply chain, we are uniquely positioned to have a positive impact on a diverse range of sectors,”* said Dr. Mark Lyons, president and CEO of Alltech.

*“The Global Compact has helped give direction, value and alignment to existing projects and inspiration for new ones. The pages of this report reflect our call to customers and partners to join us in a collaborative effort to adopt new technologies, improve business practices and embrace innovation in order to create a world of abundance.”*

In addition to our own Planet of Plenty™ vision, Alltech Coppens will follow the **European Green Deal** in its middle-long and long-term visions.



## What is the European Green Deal?

**The European Green Deal is about improving the well-being of people. Making Europe climate-neutral and protecting our natural habitat will be good for people, planet and economy. No one will be left behind.**

### The EU will:



Become climate-neutral by 2050



Protect human life, animals and plants, by cutting pollution



Help companies become world leaders in clean products and technologies



Help ensure a just and inclusive transition

As a result, we have created

## OUR PROMISES FOR 2030

- We will use 75% circular/restorative raw materials
- 90% of our suppliers must be sustainable certified
- We will achieve carbon neutrality across Scopes 1 and 2
- We will reduce water usage by 15% compared to baseline 2021
- We will reduce our Scope 3 emissions by at least 35% over baseline 2021
- We will be on track to be net-zero by 2045
- We will reduce our residual waste by 70% compared to baseline 2021
- We aim to realize zero waste emissions (recycling and reuse) throughout the life cycle of fish feed

Every second of every day, there are people thinking, trying, testing, flying, investing, inspiring, and applying new ideas, with an insatiable drive to guarantee a world where people, animals, and plants can thrive.

Please let us be part of your Planet of Plenty™ journey and contact us on social media or our website.

[www.alltechcoppens.com](http://www.alltechcoppens.com) | [in](#) [f](#) [o](#)

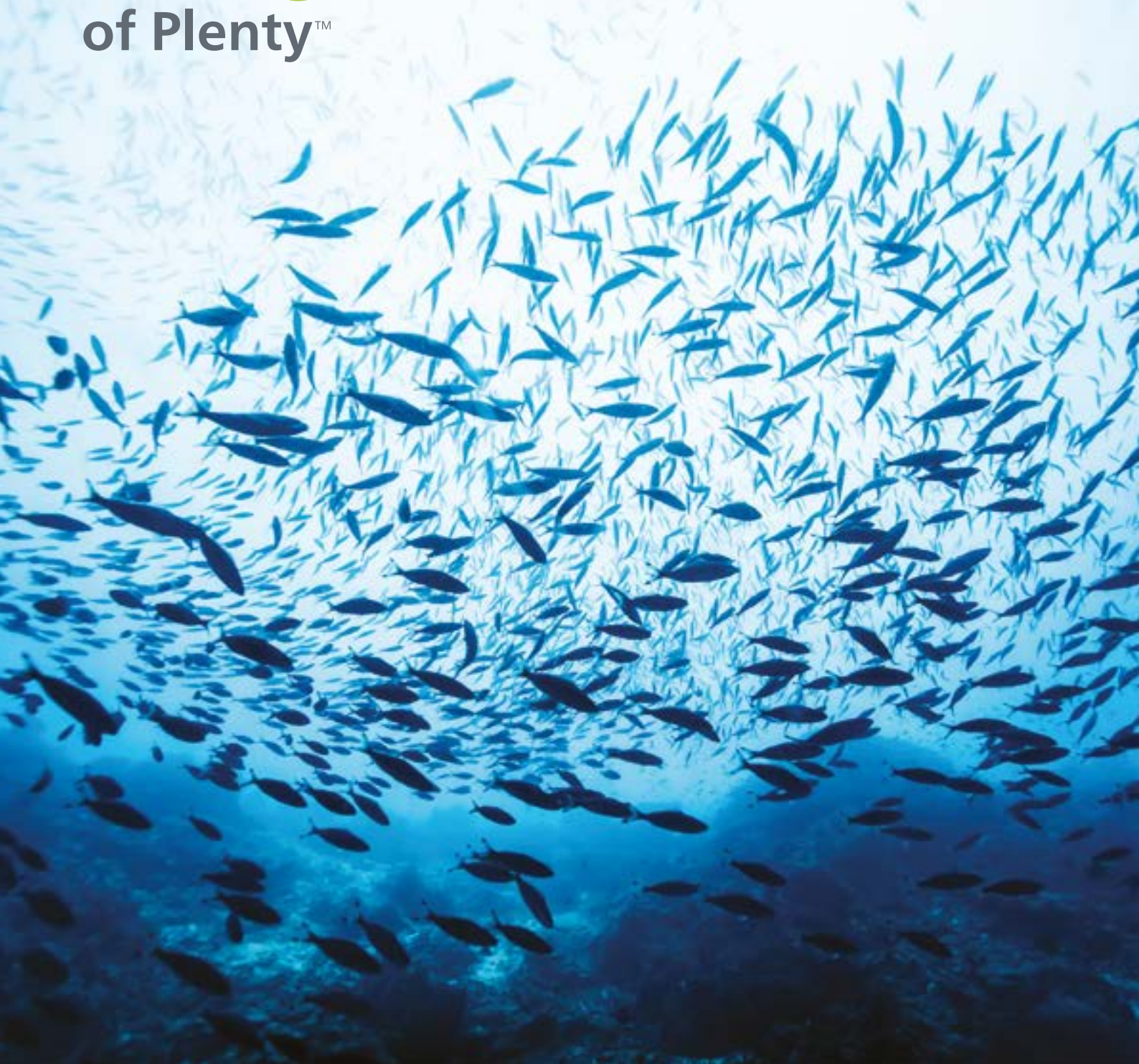


# Working together for a Planet of Plenty™



With great passion and care, we develop and supply a wide range of high-quality fish feed programs.

By focusing solely on the aquatic feeds, we are a reliable expert in the field, fully dedicated to the performance of our customers.



**Alltech® COPPENS**

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