



SUSTAINABILITY REPORT

Company Name: **AMPCO METAL**
Report Title: **Sustainability Report 2023**
Reporting Period: **January 1, 2023 - December 31, 2023**

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Executive Summary

In 2023, AMPCO METAL made significant strides in enhancing its sustainability practices, focusing on reducing environmental impact, enhancing social performance, and strengthening governance structures.

This comprehensive Sustainability Report outlines our key achievements, strategic objectives, and future goals as we continue to integrate Environmental, Social, and Governance (ESG) considerations into our business operations.

AMPCO METAL is dedicated to being a leader in the copper and aluminium metallurgy industry through ESG excellence. Our vision is to integrate sustainability into every aspect of our business, reduce our environmental footprint, enhance our social impact, and maintain robust governance practices. This commitment is reflected in our strategic objectives, which balance immediate actions with long-term goals to ensure continuous improvement and stakeholder trust.

Our strategic objectives in the short-term is to establish an ESG framework, define comprehensive ESG policies, form an Employee Committee to oversee ESG initiatives, accurately measure and report our carbon footprint, and ensure compliance with global and local legislation.

In the long-term, we aim to achieve significant reductions in greenhouse gas emissions, increase the use of renewable energy, enhance recycling technologies to support a circular economy, and strengthen stakeholder engagement through transparent communication.

Our Company Profile



110 years

Founded 1914



280

Employees



Switzerland

Headquarters



19

Global Locations



150,000

Shipments per Year



8

Precision Machine Centers



3

Foundries in 3 continents



11

Market Segments



8

Service Offerings









6

Product Offerings

Sustainability Program

Environmental Initiatives




Topic	Measures Taken	Initiatives	Status
Life Cycle Assessment	Our Life Cycle Analysis (LCA) covered 19 different locations worldwide, including our main production facilities and sales offices.	Establish Science based targets (SBTi) for emissions reduction, prioritising CO2 hotspot areas such as supply chain.	
UN SDG's	Contribute to 5 SDGs particularly relevant to the copper and aluminum production industries.	SDG 7: Affordable and Clean Energy SDG 9: Industry, Innovation, and Infrastructure SDG 12: Responsible Consumption and Production SDG 13: Climate Action SDG 17: Partnerships for the Goals	
ISO50001	Implement Energy management standards for main production site.	Improved energy efficiency across the supply chain, cost savings, regulatory compliance, carbon footprint reduction	
Regulatory Risk Assessment	Be ready for Wave 2 CSRD compliance.	Report on mandatory regulatory compliance in scope for AMPCO METAL.	
Stakeholder Engagement	Conduct a Materiality matrix risk assessment – out-side in (financial) & inside-out (impact on environment).	Identify material topics for the company and prioritize.	
CSRD	Ensure compliance with all ESG legal regulations in countries where we operate	Develop framework to collect data for CSRD report in January 2026 (2025 data).	

Sustainability Program

Social Initiatives

Topic	Measures Taken	Initiatives	Status
ISO26000 Audit	Compile a comprehensive report on our CSR performance and recommendations in the form of an 2024-2030 ESG roadmap.	<p>Implement procedures to better integrate CSR into our corporate KPIs.</p> <p>Promote bottom-up approach for communication across all locations to measure employee satisfaction, safety inspection and risk prevention.</p> <p>Explore synergy opportunities and investments to support local communities in areas where we operate.</p>	

Governance Initiatives

Topic	Measures	Initiatives	Status
Governance Policies	Review our governance policies to incorporate ESG into the organisation Quality Management system and Human Resource processes.	Form NEW ESG general policies with KPI's to provide a clear framework for AMPCO METAL's commitment to sustainability, ethical practices, and stakeholder engagement.	
Employee Committee	Restructure our Governance approach to integrate ESG into our business and management processes.	Formation of the AMPCO Metal ESG Employee Committee responsible for implementing and monitoring the Environmental Policy within their respective areas of the value chain.	
Responsibility in the Supply chain			

Company Overview

AMPCO METAL, founded in 1914, is a leading manufacturer of copper-based alloys and engineered products, operating globally with facilities in Europe, the Americas, and Asia. Our company has established itself as a reference in the specialty copper alloys market with a strong and recognized brand. We are committed to delivering high-quality products and services, catering to a diverse range of industries including aerospace, automotive, petrochemical, and general engineering.

Global Presence with a Local Touch

AMPCO METAL has a robust global presence, supported by a network of production facilities, distribution centers, and sales offices strategically located around the world. This global footprint allows us to serve approximately 30,000 customers in various market segments with a local touch, ensuring timely delivery and personalized service.

Business Model

Our business model is characterized by a fully integrated production process that spans from foundry operations to fully finished parts of the highest quality. This model ensures complete control over the manufacturing process, guaranteeing consistent product quality and traceability.

Our capabilities include:

- ▶ **Foundry Operations:** Sand casting, centrifugal casting, horizontal and vertical continuous casting.
- ▶ **Machining:** High precision machining centres in Germany, France, India, and upcoming centres in China and Brazil.
- ▶ **Sub-contracting and Private Label Production:** Rolling, forgings, and extrusions.



Product Offerings

AMPCO METAL offers a comprehensive range of products, including:

- ▶ **Specialty Alloys:** AMPCO® aluminium bronzes, AMPCOLOY® high-copper alloys, and AMPCO-TRODE® welding rods and wires.
- ▶ **Finished and Semi-finished Products:** Rods, bars, discs, plates, and made-to-order castings.
- ▶ **Standard Alloys:** Compliant with EN, DIN, UNS standards.
- ▶ **Safety Tools:** Non-sparking, non-magnetic tools for safe operation in hazardous environments.



Service Offerings

In addition to our extensive product range, we provide a suite of services designed to meet the diverse needs of our customers:

- ▶ **Plate Cutting and Cut-to-Length Services:** Customized to precise specifications.
- ▶ **Machining Services:** From rough machining to finish machining of parts and components.
- ▶ **Heat Treatment:** Tailored to enhance material properties.
- ▶ **Technical Support:** Expert advice and solutions from our team of metallurgists and engineers.
- ▶ **Logistical Support:** Efficient warehousing and distribution to ensure timely delivery of products.

Our integrated approach and commitment to excellence make AMPCO METAL a trusted partner in the specialty metals industry, delivering reliable and high-performance solutions to meet the evolving demands of our customers.

Our Vision and Strategy

At AMPCO METAL, we are dedicated to integrating sustainability into every aspect of our business. Our vision is to be a leader in the copper and aluminium metallurgy industry in ESG excellence.

We have outlined a two-phase approach:

Phase 1: Ensure compliance with all legal requirements in every country where regulations are changing or forthcoming.

Phase 2: Develop an a long-term ESG strategy focused on creating customer value.

Prior to defining the strategy for Phase 2, we need to conduct in-depth market analysis to understand what ESG aspects, beyond legal compliance, customers find valuable to their operations.

With a clear understanding of these customer priorities, we can then design our products, services, and production processes to align with their needs and expectations.

Strategic Objectives

At AMPCO METAL, we understand that being perfect from the start isn't the goal. Our strategic objectives are designed to advance our sustainability agenda iteratively by integrating ESG considerations into our daily operations. We strive to balance immediate actions with our long-term goals, ensuring that our commitment to environmental stewardship, social responsibility, and robust governance is reflected in every aspect of our business.

**At AMPCO METAL,
we understand that
being perfect from
the start isn't
the goal.**

Achievements

In 2023, we commenced our ESG journey with a discovery phase, conducting a gap analysis to understand the regulatory landscape and identify material topics relevant to our business. We undertook a comprehensive Life Cycle Assessment (LCA) to measure our carbon emissions, alongside a detailed Regulatory Risk Assessment and Cost Analysis to evaluate the impact on our value chain globally. To gauge our CSR performance, we adopted ISO 26000 standards and performed an onsite assessment of our operations. These foundational efforts were essential in shaping our ESG strategy and initiatives.



Achievements

Short – term Objectives

Compliance with Legislation

Align with reporting practices with global and local legislation. We begin with EU Corporate Sustainability Reporting Directive (CSRD) requirements, ESRS, EU taxonomy rules and UN SDGs.

Employee Committee Formation

Create an Employee Committee to oversee and drive ESG initiatives across the organization using a bottom up approach.

Carbon Footprint Quantification

Accurately measure and report our carbon footprint across all operations using a consistent and repeatable process.

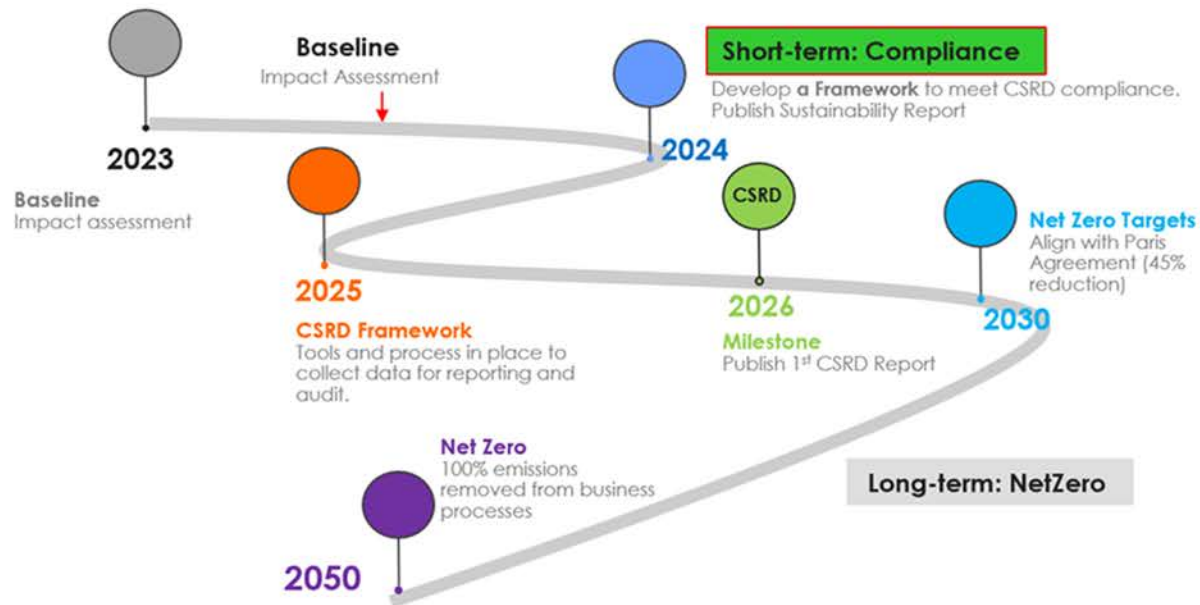
ESG Policies

Define ESG policies to provide a clear framework for AMPCO Metal's commitment to sustainability, ethical practices, and stakeholder engagement.

Achievements

Long Term Roadmap

AMPCO METAL is committed to ambitious long-term ESG objectives driven by customer value and Net Zero Targets. By 2030, we aim to align with the Paris Agreement targets, achieving a 45% reduction in emissions as part of our goal to reach net zero emissions by 2050. This journey reflects our dedication to sustainability and environmental responsibility, integrating these principles deeply into our corporate strategy.



Achievements

Material Topics

Stakeholder Dialogue is a cornerstone of our ESG strategy. We conducted a materiality assessment to identify the key ESG issues that matter most to our stakeholders and our business. This process involved consulting with internal and external stakeholders, including employees, customers, suppliers, community members, and industry experts.

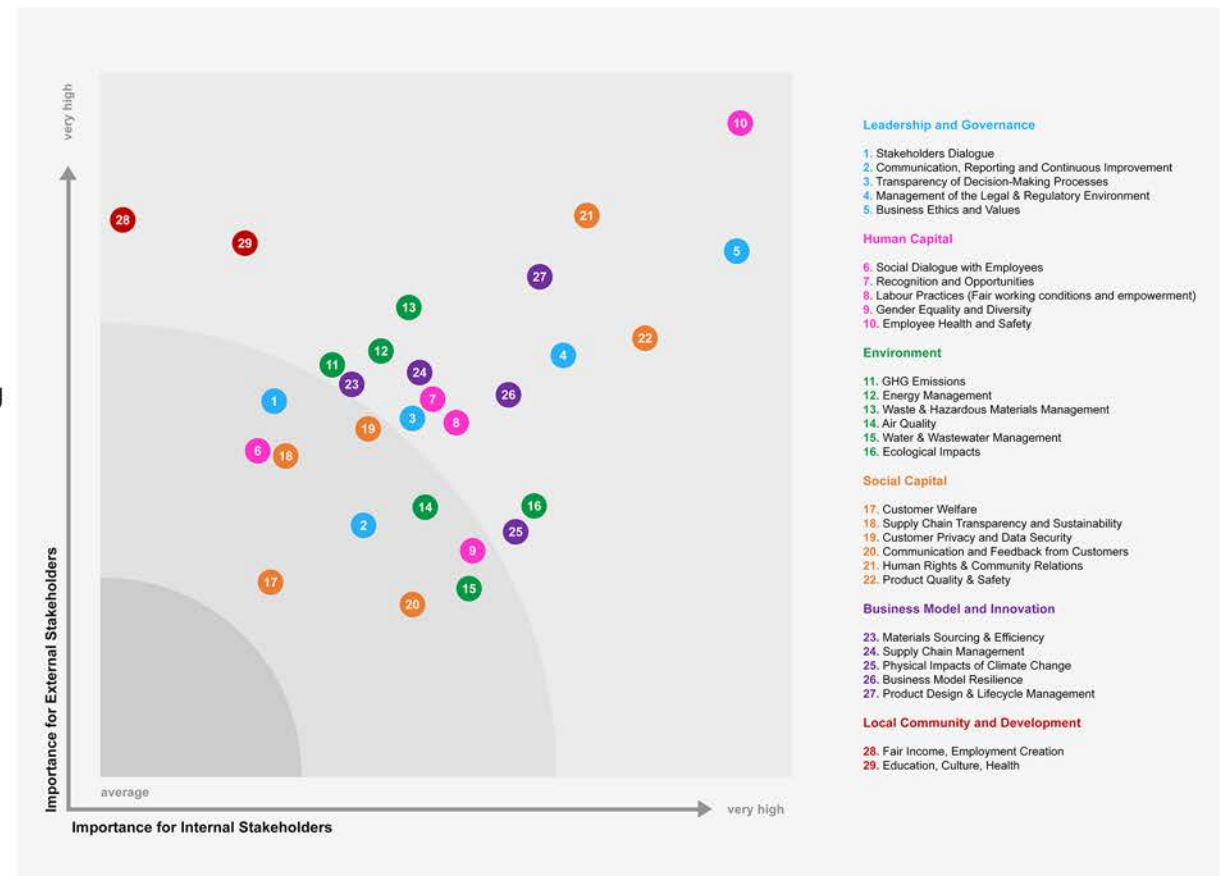
Key Issues Identified

Through our materiality assessment, we identified several critical issues. The key ESG issues that emerged from the internal and external scores, along with the open-ended responses, can be summarized as follows:

Top ESG Issues:

- 1 **Employee Health and Safety:** High importance placed on ensuring the health and safety of employees.
- 2 **Business Ethics and Values:** Emphasis on maintaining ethical business practices and values.
- 3 **GHG Emissions:** Concern about greenhouse gas emissions and their impact on the environment.
- 4 **Transparency of Decision-Making Processes:** Need for clear and transparent decision-making processes within the company.
- 5 **Waste & Hazardous Materials Management:** Importance of managing waste and hazardous materials effectively.

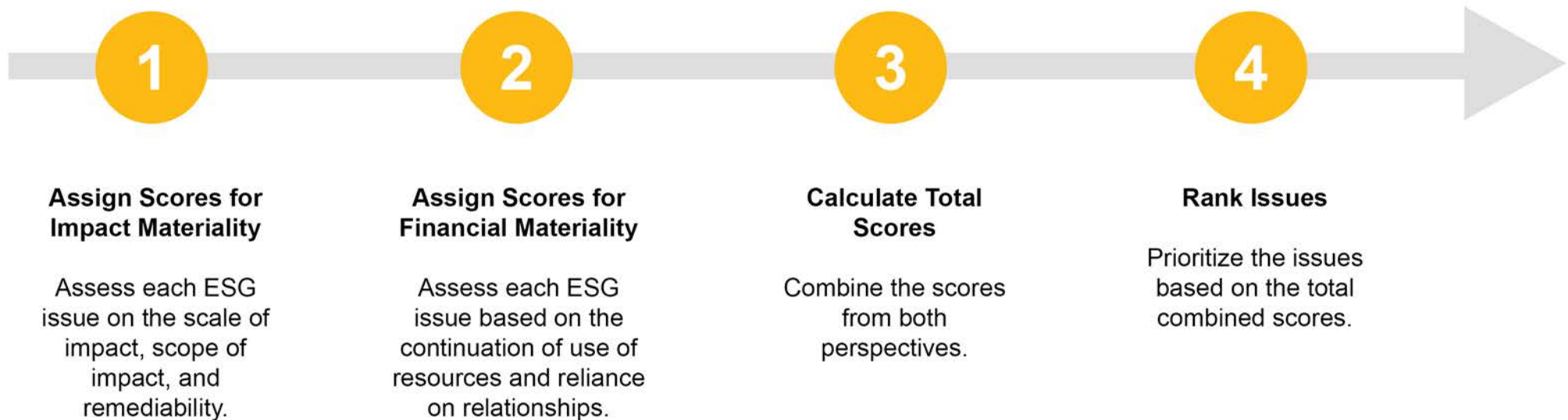
Stakeholder Dialogue is a cornerstone of our ESG strategy.



Double Materiality Assessment

To ensure a comprehensive approach and alignment with EU CSRD regulations, we conducted a double materiality assessment on each identified issue, evaluating both the impact of these issues on our business and our impact on these issues (impact materiality and financial materiality). We used double materiality guidelines from EFRAG Guidelines.

Step-by-Step Prioritization Process



ESG Material Issues Scoring

Scope	ESG Issue	Impact Materiality			Financial Materiality		Ranking	Disclosure	
		Scale of Impact	Scope of Impact	Remediability	Continuation of Use	Reliance on Relationships	Total Score	Industry Topics (SASB)	Material Issues
E	Greenhouse Gas (GHG) Emissions	5	5	4	4	3	21		✓
	Biodiversity and Land Use	4	4	4	3	2	17		!
	Water Usage and Management	4	4	3	3	2	16		✓
	Energy Consumption and Efficiency	4	4	2	3	2	15	✓	✓
	Resource Management	4	3	2	3	2	14	✓	✓
	Waste Management	3	3	2	2	2	12		!
S	Labor Practices and Human Rights	5	5	4	3	3	20		✓
	Health and Safety	5	5	4	3	3	20	✓	✓
	Community Engagement and Impact	3	3	3	2	3	14		!
	Diversity and Inclusion	3	3	2	2	2	12		!
	Training and Development	3	3	2	2	2	12		!
G	Regulatory Compliance	4	4	3	3	3	17		✓
	Ethical Business Practices	4	4	3	3	3	17		✓
	Risk Management	4	4	3	3	3	17		✓
	Supply Chain Management	3	3	2	3	2	13	✓	✓
	Corporate Governance	3	3	2	2	2	12		!
	Stakeholder Engagement	3	3	2	2	2	12		!

Impact Materiality
 Scale of Impact: How severe is the impact?
 Scope of Impact: How widespread is the impact?
 Remediability: How easy is it to remedy the impact?

Financial Materiality
 Continuation of Use of Resources: Impact on the company's ability to use necessary resources.
 Reliance on Relationships: Impact on the company's ability to maintain necessary relationships.

Environmental Performance

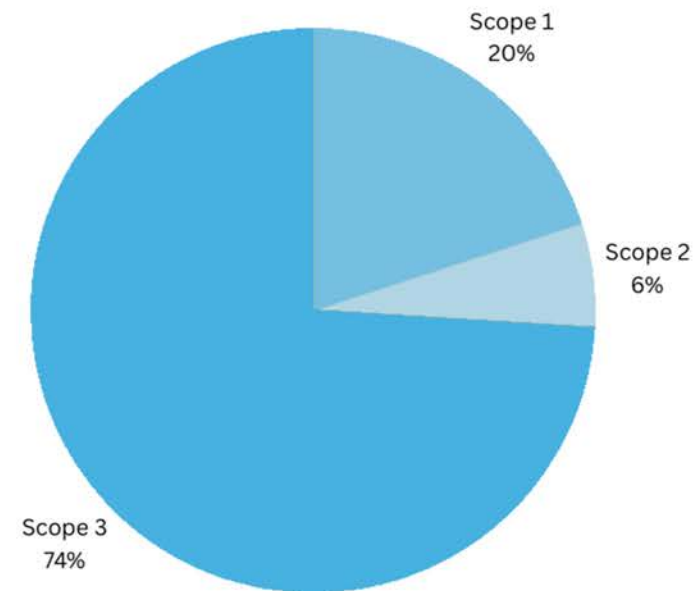
Life Cycle Analysis (LCA)

- ▶ **Scope of the LCA:** Our Life Cycle Analysis (LCA) covered 19 different locations worldwide, including our main production facilities and sales offices. We engaged a third-party vendor, Maneco, to ensure an accurate and unbiased assessment of our environmental impact. The LCA followed the GHG Protocol guidelines and considered emissions from scopes 1, 2, and 3.
- ▶ **Greenhouse Gas (GHG) Emissions** are the ESG issue that most significantly impacts customers of AMPCO METAL. Addressing this issue involves reducing emissions, increasing transparency in emission reporting, and demonstrating commitment to sustainability, which aligns with customer expectations and regulatory requirements. This focus can help AMPCO METAL strengthen its relationships with customers and meet the increasing demand for sustainable products.
- ▶ AMPCO METAL's total carbon footprint is 8,495 tCO₂e. The majority of our emissions (74%) were in Scope 3, primarily from raw materials and freight. Our emissions intensity for production is 2.3 tCO₂e per ton of metal produced (Scope 1 & 2). Total emissions for Scope 1, 2 & 3 is 8.7 tCO₂ attributed to transportation emissions.

**AMPCO METAL's
total carbon footprint
8,495 tCO₂e.**

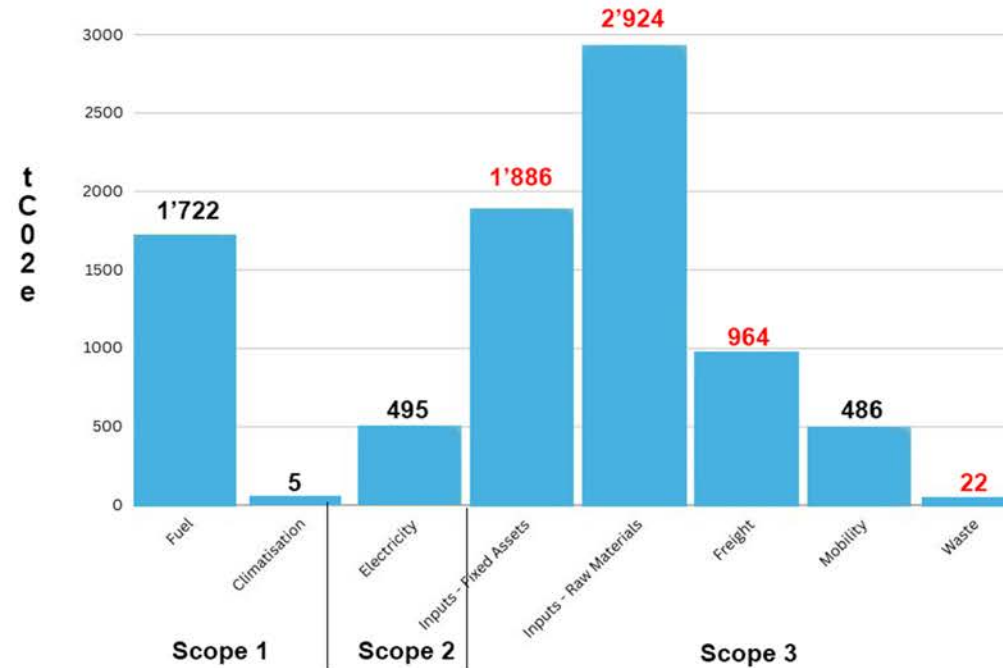
AMPCO Carbon Foot Print

Emissions by Scopes



Decarbonisation

At AMPCO METAL, our decarbonization strategy is aimed at reducing greenhouse gas emissions across all business operations. By 2025, we will have established a comprehensive CSRD framework to facilitate accurate data collection for reporting and auditing. Moving forward, we plan to align with the Paris Agreement targets, aiming for a 45% reduction in emissions by 2030. Our long-term objective is to achieve net zero emissions by 2050, ensuring all emissions are eliminated from our processes. This involves transitioning to renewable energy sources, optimizing energy efficiency through implementation of ISO 9000 standards, and innovating sustainable practices throughout our supply chain.



Priority Initiatives

Conduct GHG Inventory: Implement solution to measure and monitor GHG emissions across all operations (ISO14000 standards).

Set Reduction Targets: Establish science-based targets for emission reductions beginning with our hotspot areas such as supply chain and freight.

Implement Energy Efficiency Measures: Implement ISO 9000 standards and upgrade equipment and processes to reduce energy consumption.

Adopt Renewable Energy: Increase the use of renewable energy sources for our production site.

Offset Emissions: Invest in carbon offset projects where possible.

UN Sustainable Development Goals (SDG)

For our Global operations, Sustainable Development Goals (SDG's) are particularly relevant for AMPCO Metal. Below are the most pertinent SDG's and how they relate to the operation of our business.

SDG 7: Affordable and Clean Energy

Relevance: Energy-intensive processes are central to foundry operations. Implementing energy-efficient technologies and using renewable energy sources can significantly reduce the environmental impact.

SDG 9: Industry, Innovation, and Infrastructure

Relevance: Investing in resilient infrastructure, fostering innovation in manufacturing processes, and upgrading technology to be more sustainable.

SDG 12: Responsible Consumption and Production

Relevance: Promoting sustainable practices in material sourcing, reducing waste, recycling metals, and implementing circular economy principles.

SDG 13: Climate Action

Relevance: Reducing greenhouse gas emissions through improved energy efficiency, adoption of cleaner technologies, and carbon offset initiatives.



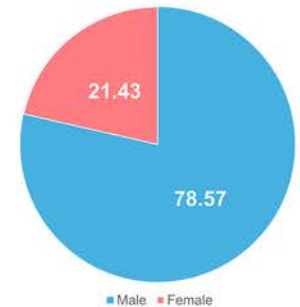


Social Initiatives

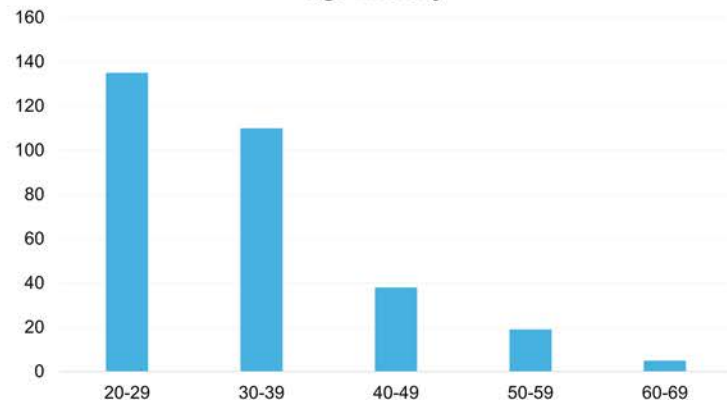
As an active part of society, AMPCO METAL is committed to fostering sustainable relationships with people and institutions across our 19 global locations. Our priority is the well-being of our employees. In line with our global sustainability strategy, we assume social responsibility within our company, in our communities, and throughout our supply chains. We respect labour and human rights, are committed to health and safety, promote diversity and inclusion, and ensure equal opportunities for all.

Employee Gender Diversity

The gender distribution at AMPCO METAL shows a significant disparity, with 78.6% male employees and 21.4% female employees. This is not uncommon in the metal industry, which is traditionally male dominated, but we recognise there is still work to be done. While the current gender imbalance reflects industry trends, there is a clear opportunity for AMPCO METAL to enhance gender diversity. Initiatives to attract, retain, and promote female talent can help bridge this gap and create a more balanced workforce.



Age Diversity



Age Diversity

The age distribution of our workforce indicates a relatively young employee base. The majority of our employees fall within the 20-29 and 30-39 age groups, suggesting that we have successfully attracted younger talent to our organization. Having a young workforce is a positive indicator of our ability to engage with the next generation of professionals. However, we recognize that we can do more to maintain this demographic advantage. Continued efforts in professional development, career progression opportunities, and inclusive workplace practices will be crucial in retaining this talent and ensuring their long-term growth within the company.

At AMPCO METAL, we are proud of our ability to attract a young and dynamic workforce. This positions us well for future growth and innovation. However, we acknowledge the importance of fostering a more inclusive environment, particularly in enhancing gender diversity. Our commitment to diversity and inclusion is not just about meeting industry standards but about creating a workplace where all employees feel valued and have equal opportunities to succeed.



Employee Well-being and Safety

AMPCO METAL is committed to fostering sustainable relationships with people and institutions across our 19 global locations. We recognize social responsibility within our company, in our communities where we operate, and throughout our supply chains.

We are dedicated to upholding labour and human rights, ensuring health and safety, fostering diversity and inclusion, and providing equal opportunities for everyone.

By focusing on wellbeing, we can help our employees maintain or increase their engagement and productivity. Consequently, we will continue to emphasize raising awareness of our wellbeing programs and initiatives among our employees and encouraging them to participate.

As part of our commitment to enhancing corporate social responsibility, we engaged a third party specialist to conduct an ISO 26000 audit at our main operational facilities in Switzerland, France and Netherlands. This comprehensive assessment aimed to evaluate our social and governance performance, providing us with valuable insights and actionable recommendations to drive our sustainability initiatives forward.

Recommendation	Impact	Recommended Action	Timing
Formally identify the means of transportation used by employees (company mobility plan label (eco-mobile))	Reduction of GHG emissions related to commuting and business travel through concrete measures supported by the company	Implement a company mobility plan and enhance traceability/monitoring of business travel	2024-2025
Develop and formalize an HR policy for the group to standardize HR processes, monitoring, and information spread	Increase employee satisfaction and enhanced productivity, fostering AMPCO METAL's positive reputation in the metal business	Standardize HR processes and policies across the group	2024
Study the high turnover rate and explore practices to attract and retain talent	Increase employee satisfaction and enhanced productivity, fostering AMPCO's positive reputation in the metal business	Investigate and address reasons for high turnover rates	2024
Build a social barometer to measure employee satisfaction at work	Improve employee satisfaction and safety, reducing turnover and enhancing workplace morale	Create a regular survey system to gauge employee satisfaction	2024
Integrate tracking of near-miss incidents	Improve employee satisfaction and safety, reducing turnover and enhancing workplace morale	Set up a system to track and analyze near-miss incidents	2024
Develop a culture of prevention and risk awareness, seeking a more proactive safety inspection schedule	Improve employee satisfaction and safety, reducing turnover and enhancing workplace morale	Adopt a proactive approach to safety inspections	2024
Update signage and information (indicating out-of-service safety showers, displaying emergency procedures, reminders to turn off machinery)	Improve employee satisfaction and safety, reducing turnover and enhancing workplace morale	Ensure all safety-related signage and information are up to date	2024
Develop a mobility plan and women's inclusion incentives	Improve employee satisfaction and safety, reducing turnover and enhancing workplace morale	Develop incentives for sustainable commuting and increasing women's participation	2024

Governance Initiatives

Ethical Practices and Compliance

Our governance and ethics strategy focuses on promoting a positive social impact through our business practices. This includes advocating for labour rights, minimizing environmental footprints, fighting against corruption, and safeguarding customer information and data privacy. Our compliance management system adheres to ISO 9001 standards and includes anti-corruption measures, sustainable procurement processes, and regular ESG audits to ensure transparency and accountability. We have policies in place to drive best practices across our operations, such as our Code of Conduct, Environmental Policy, and Data Protection Policy. As part of our ongoing commitment to sustainability and excellence, we are reviewing our governance structure to ensure we have the appropriate level of representation for Environmental, Social, and Governance (ESG) initiatives. To this end, we are establishing an ESG committee dedicated to driving our sustainability agenda forward. Additionally, we are investing in a Quality Management System (QMS) to meet ISO 9001 standards, reinforcing our commitment to quality and continuous improvement across all aspects of our operations.

ISO 26000 Assessment

As part of our commitment to enhancing corporate social responsibility, we engaged a third party specialist to conduct an ISO 26000 audit at our main operational facilities in Switzerland, France and Netherlands. This comprehensive assessment aimed to evaluate our social and governance performance, providing us with valuable insights and actionable recommendations to drive our sustainability initiatives forward.

Recommendation	Impact	Recommended Action	Timing
Formalize the dialogue and responsibilities between Marly and the rest of the group entities at the management level	Improve sustainability skills to facilitate the implementation of a sustainability strategy and its initiatives	Define and document responsibilities and communication processes	Q2 2024
Ensure that the responsibilities between Marly and the group are reflected in the management documents of the entities	Improve sustainability skills to facilitate the implementation of a sustainability strategy and its initiatives	Update organizational charts and job descriptions to reflect responsibilities	Q2 2024
Communicate the group's values/mission and targets, and the newly established policies (procurement and supplier criteria)	Improve communication and expectations toward stakeholders and potential suppliers	Effectively communicate the group's values, mission, and newly established policies	2025
Develop a system of cross-internal ESG audits among quality managers within the group to leverage the independence of internal auditors	Enhance sustainability skills to facilitate the implementation of a sustainability strategy and its actions	Implement a cross-internal ESG audit system among quality managers	2025
Integrate the reporting requirements as published in the European CSRD (Corporate Sustainability Directive)	Ensure compliance with European requirements, reduce tax liabilities, and maintain competitiveness	Prepare for and integrate CSRD reporting requirements at the global group level	2025-2026
Evaluate the impact and preparations required by the upcoming new European directive 'Border Carbon Adjustment Mechanism' for all imports	Ensure compliance with European requirements, reduce tax liabilities, and maintain competitiveness	Assess and prepare for the impact of the new European directive on carbon adjustments	2025-2026
Evaluate the impact and preparations required by the upcoming new European directive 'Environmental Product Declaration'	Ensure compliance with European requirements, reduce tax liabilities, and maintain competitiveness	Assess and prepare for the impact of the new European directive on environmental product declarations	2025-2026

Summary of the ISO 26000 Assessment

The ISO 26000 audit identified key areas for improvement in both social impact and governance. The recommendations are categorized as follows:

Social Impact

- ▶ Implementing a company mobility plan to reduce GHG emissions.
- ▶ Standardizing HR processes across the group.
- ▶ Addressing high employee turnover rates.
- ▶ Establishing regular employee satisfaction surveys.
- ▶ Tracking near-miss incidents to improve workplace safety.
- ▶ Adopting a proactive approach to safety inspections.
- ▶ Updating safety-related signage and information.
- ▶ Developing incentives for sustainable commuting and increasing women's participation.

Governance

- ▶ Formalizing communication and responsibilities between Marly and other group entities.
- ▶ Updating organizational charts and job descriptions to reflect responsibilities.
- ▶ Communicating the group's values, mission, and newly established policies.
- ▶ Implementing a cross-internal ESG audit system.
- ▶ Preparing for and integrating CSRD reporting requirements.
- ▶ Assessing and preparing for the impact of new European directives on carbon adjustments and environmental product declarations.

Our Commitment

AMPCO METAL is fully committed to addressing these recommendations to enhance our social and governance practices.

Implement Action Plans: Develop and implement detailed action plans for each recommendation to ensure timely and effective execution.

Engage Stakeholders: Foster open communication and collaboration with all stakeholders to ensure alignment and support for our initiatives.

Monitor Progress: Establish robust monitoring and reporting mechanisms to track progress and ensure accountability.

Continuous Improvement: Commit to continuous improvement by regularly reviewing and refining our strategies and practices.

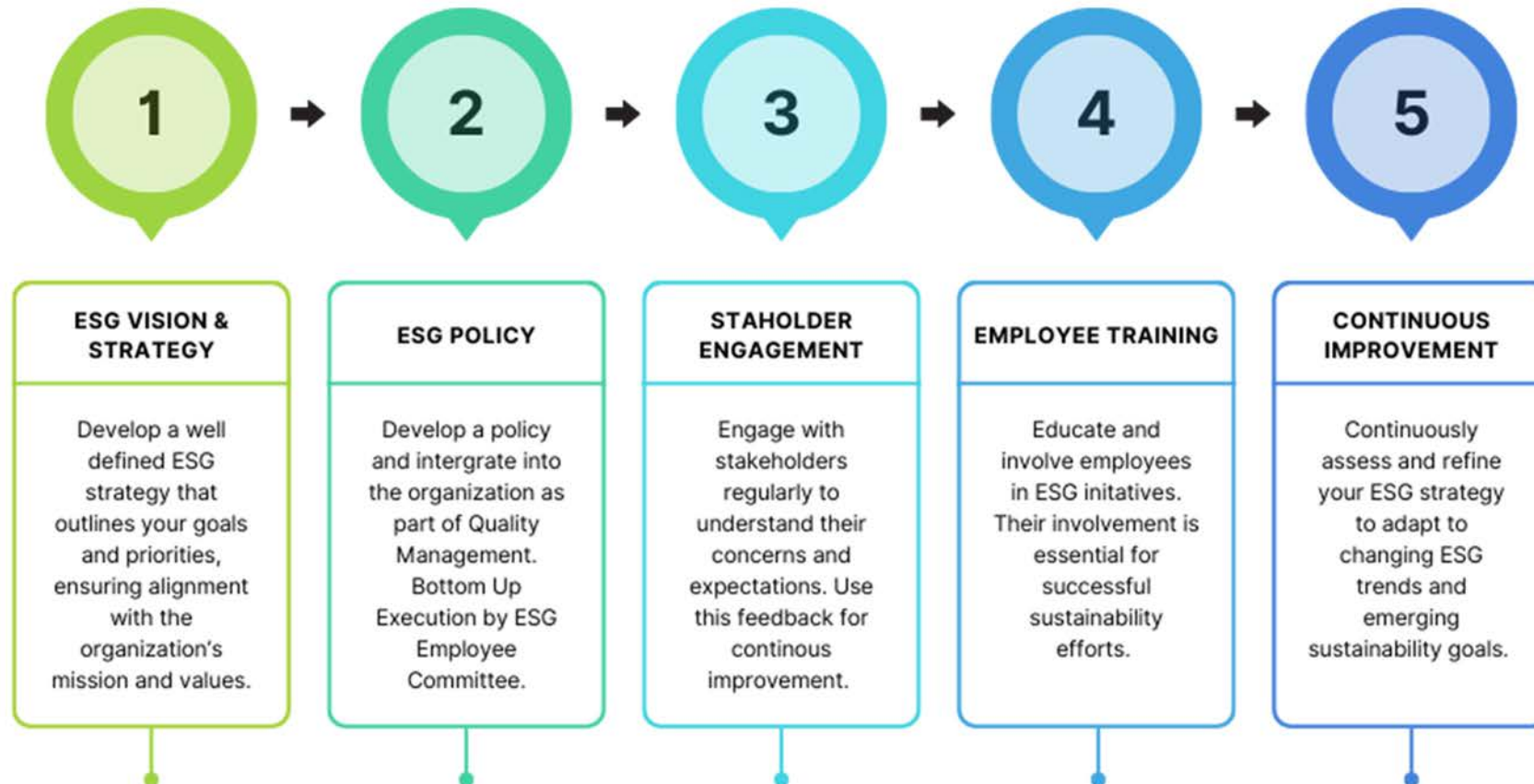
Follow-Up Assessment in 2025

We are dedicated to making significant progress on these recommendations and will conduct a follow-up assessment in 2025. This assessment will evaluate our advancements and identify further opportunities for improvement, ensuring that we remain on track to achieve our sustainability goals.

By proactively addressing the audit's recommendations, we aim to strengthen our social responsibility and governance frameworks, driving sustainable growth and fostering a positive impact on our employees, stakeholders, and the environment.

Sustainability Management

AMPCO METAL has developed a comprehensive framework for managing sustainability that integrates Environmental, Social, and Governance (ESG) considerations into our business strategy and operations. This framework is structured around five key steps:



Future Goals and Opportunities

Our long-term objectives include achieving net-zero emissions by 2050, transitioning to a circular economy model, and integrating sustainability into all aspects of our operations.

Copper and Its Importance to the Circular Economy

Copper is integral to the circular economy due to its recyclability and the minimal loss of properties during the recycling process. Here are key reasons why copper is vital to the circular economy:

High Recyclability: Copper can be recycled repeatedly without degradation of its properties. This makes it an ideal material for a circular economy, where the goal is to keep resources in use for as long as possible.

Resource Efficiency: Recycling copper requires significantly less energy compared to primary copper production from ore. This leads to substantial energy savings and a reduction in greenhouse gas emissions, contributing to more sustainable industrial processes.

Waste Reduction: By recycling copper, waste is minimized, reducing the need for landfill space and lowering the environmental impact associated with mining and raw material extraction.

Economic Value: Recycled copper retains high economic value, providing financial incentives for its recovery and reuse. This supports economic sustainability by creating jobs in the recycling industry and reducing the costs associated with raw material procurement.

Support for Green Technologies: Copper is essential in the development of renewable energy technologies such as wind turbines, solar panels, and electric vehicles. Its recyclability ensures a sustainable supply of this critical material, supporting the transition to a low-carbon economy.

Material Security: Recycling copper reduces dependence on mining, thus enhancing material security and ensuring a stable supply of this essential resource for future generations.



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