

# Kelvion



**R3 | KELVION'S GLOBAL  
ESG INITIATIVE**

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**GLOBAL ENVIRONMENTAL  
TARGETS 2022**

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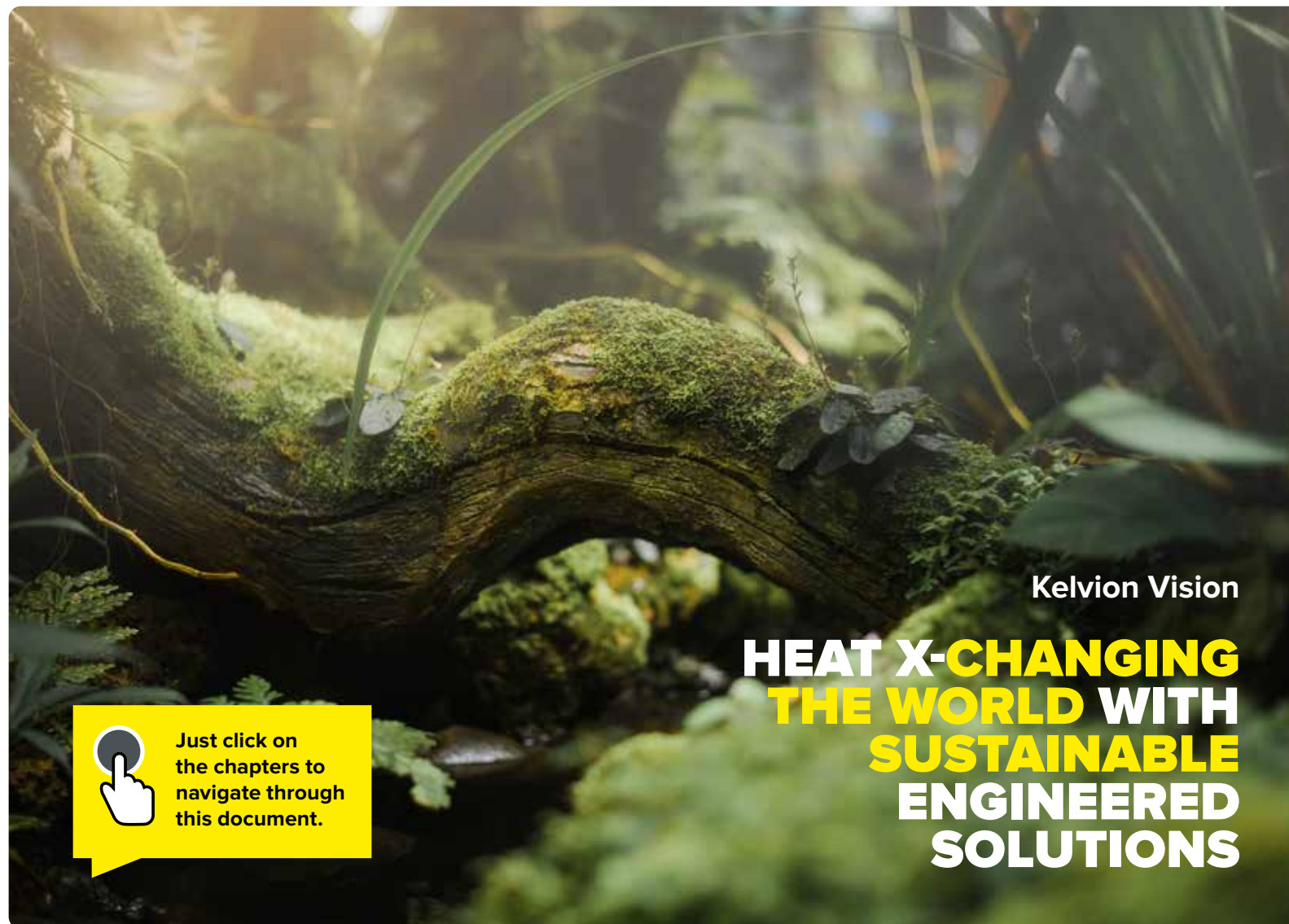
**CHINESE PLANT COVERS  
50% OF ENERGY DEMAND  
BY SOLAR PANELS**

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# **SUSTAINABILITY REPORT 2022**


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Kelvion Vision

**HEAT X-CHANGING  
THE WORLD WITH  
SUSTAINABLE  
ENGINEERED  
SOLUTIONS**

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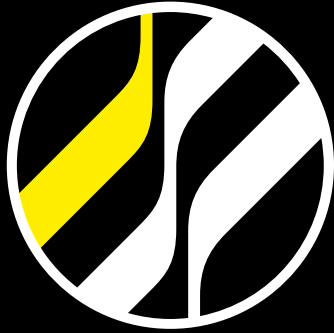


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SMART HX TECHNOLOGY

# Kelvion

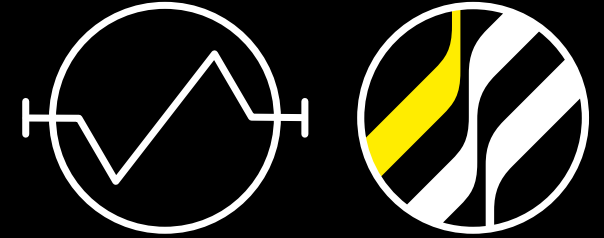


## KELVION – A TRIBUTE TO LORD KELVIN (1824 - 1907)



Lord Kelvin formulated the laws of thermodynamics and absolute units of temperature are stated in kelvin, in his honor.

## OUR LOGO – INSPIRED FROM THE SCHEMATIC FOR HEAT EXCHANGER



### Welcome to Kelvion! Where Heat Exchange is our Business.

We are one of the leading global manufacturers of heat exchangers and have been providing solutions for almost every industrial application imaginable since the 1920s, specializing in customized solutions suitable for extreme environmental conditions - as of 2015 under the name of Kelvion.

With one of the most extensive selections of heat exchangers in the world, we are a well-known partner in many industries, including transportation, energy, oil and gas, chemical, marine as well as food and beverage, data center and the HVAC and refrigeration technology sector.

Our products include Compact Fin Heat Exchangers, Plate Heat Exchangers, Single Tube Heat Exchangers, Transformer Cooling Systems, Cooling Towers and Shell & Tube Heat Exchangers.

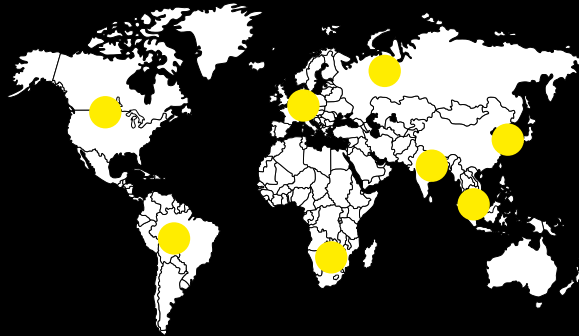
Our many years of experience and in-depth expertise have made us specialists in this field. Our heat exchangers are designed specifically to meet the needs of the respective machine or equipment system, ensuring outstanding energy efficiency and reliability in any market segment.

This gives our customers a cutting-edge over their competitors while also reducing operating costs over the long term.

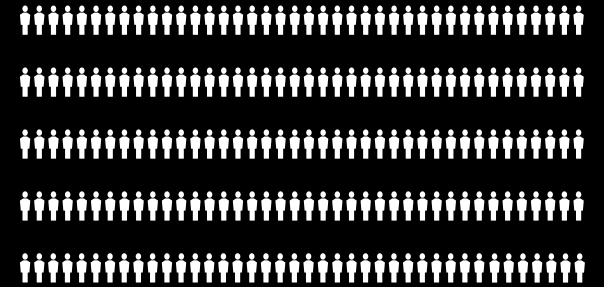
As your heat exchange partner, we understand that outstanding and reliable after-sales services are critical for you, our customer, and we work alongside with you in close partnership supporting you throughout the full life cycle of your plant and equipment to ensure lasting business success.

### Kelvion – Experts in Heat Exchange.

## 67 BRANCHES AND SALES PARTNERS WORLDWIDE



## 5,000 EMPLOYEES WORLDWIDE



## YOUR MARKETS ARE OUR MARKETS



Chemicals



Data Center



Food & Beverage



HVAC



Refrigeration



Marine



Oil & Gas



Power



Transportation



... and more



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# DEAR READER,

The impact of climate change is confronting us with fundamental challenges at all levels. Politicians, society, and we as business leaders all have an equal responsibility to face these challenges and find sustainable solutions.

Kelvion's sustainability efforts start within our own organisation. To actively combat climate change we want to make our operations climate-neutral by 2040. As a first step, we are aligning our business activities with the United Nations' 17 Sustainability Development Goals.

Achieving the CO2 target calls for innovation and smart technologies. All the more reason for us to promote heat exchange technologies that will enable sustainable operations. Our wide range of solutions support sustainable operations in different markets around the world and are driven by our continuous innovation. Kelvion R&D teams are constantly improving our technologies to meet our customer's requirements and make the world a better place.

We also want to lead by example when it comes to social responsibility. Kelvion believes deeply in supporting human rights, providing fair working conditions and in driving both environmental protection and anti-corruption. We set high standards for sustainable and environmentally conscious behaviour, not only for ourselves but also for our suppliers. As a matter of principle, we do not buy any materials that are associated with the exploitation of people or of child labour. We also expect these standards to be applied by our business customers.

Our conviction goes even further. Fundamentally we include diversity, equity and inclusion everywhere in our global businesses and we reject any kind of discrimination. These core principles are a fixed and integral part of our HR policy - we lead from a perspective that recognizes and embraces inclusion and diversity as a key enabler.

Responsible business practices are second nature at Kelvion and, around the world, we live sustainability at all company levels. This includes tracking, managing and improving our ESG Program continuously. We are just at the beginning of this exiting journey. This report will give you a glimpse into our ongoing progress and efforts – there is much to do. Please join me as we continue this journey.

Best regards,



Andy Blandford (CEO)



Andy Blandford (CEO)



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# R3 – TOWARDS A SUSTAINABLE FUTURE

We believe that ESG principles are crucial for securing our future as a strong and resilient company to provide long-term value for our customers and business partners. As a result, ESG is an important core component of Kelvion's corporate strategy.

We demonstrate our ESG commitment through our "R3" approach: We aim to **R**espect all employees, **R**educe unsustainable usage of resources and **R**eport transparently to our business partners and stakeholders.

Together with our employees, customers and suppliers, we are looking to a sustainable future, and our decision-making processes include both business considerations and ecological and social aspects. That is the basis for our 360-degree view of our value and production chains to further improve performance, products and contributes to the growth of Kelvion's sustainably. We are fully committed to supporting our customers to support sustainable business and secure long-term success.



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# SUPPORTING THE SUSTAINABLE DEVELOPMENT GOALS

The Sustainable Development Goals (SDGs) were adopted by the United Nations in 2015 as a universal call to action to end poverty, protect the planet, and ensure that by 2030 all people enjoy peace and prosperity. Those SDGs are taken into consideration for defining Kelvion's ESG strategy, initiatives and annual goals. Following this approach, Kelvion is continuously contributing towards the SDGs.

We aim to improve our own sustainability performance and enable our partners and customers to do so by supplying heat exchangers with the lowest impact on environmental and human capital by applying the highest governance standards.



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Kelvion attaches great importance to environmental protection, climate change and energy efficiency – from supply chain and internal production processes to final products and servicing. With our waste reduction program and continuous reduction of our CO<sub>2</sub> footprint, we intend to meet our customer expectations of high quality and resource-efficient production and supply chain.

Kelvion intends to become carbon neutral by 2040 through setting ambitious targets for 2030 by improving our CO<sub>2</sub> footprint each year.

**KELVION INTENDS  
TO BECOME CARBON  
NEUTRAL BY 2040**



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## OUR GLOBAL ENVIRONMENTAL TARGETS 2022

### ENERGY USAGE



**-10%**  
FROM FUEL



**-10%**  
FROM UTILITIES



**+2%**  
RENEWABLE  
ENERGY USAGE

### WATER USAGE

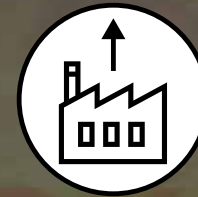


**-10%**  
INPUT



**-10%**  
OUTPUT

### GREEN HOUSE GAS EMISSION



**-6%**  
DIRECT



**-6%**  
INDIRECT

### WASTE DISPOSAL



**-10%**  
HAZARDOUS



**-10%**  
NON-HAZARDOUS



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## EXAMPLE OF INITIATIVES

### CHINESE PRODUCTION PLANT USES SOLAR ENERGY

Since the Kelvion site in Wuhu (China) was established in 1995, it has been serving a variety of clients around the globe with our heat exchangers. The factory combines our core competences: strong production capacity, extensive service offerings and deep technical know-how, backed by the innovative strength of our R&D department.

At the beginning of 2022, the roof of the production facility in Wuhu was equipped with solar panels to reduce the CO<sub>2</sub> emissions by 5,000 tons a year. This is a huge step as comparable data show: the per-capita CO<sub>2</sub> emission on a global scale in 2018 was 4.8 tons and an economy flight from Dusseldorf, Germany, to Beijing, China, covering 7,800 km, accounts for 1.3 tons of CO<sub>2</sub>. This project is a fantastic start to contribute to the ESG targets.

**The solar panels provide up to 5.0 MW.  
This means, we will then cover about half of  
the plant's total energy demand by solar energy.  
A huge step to improving our CO<sub>2</sub> footprint.**



**50%**  
of the plants energy demand  
is covered by the solar panels



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The wellbeing of our employees is one of our top priorities. All of them should be able to work in a safe and healthy environment. Our vision is clear: we continue to pursue our zero-accident strategy to eliminate the number of accidents and ensuring safe conditions and practices. Kelvion is committed to ensuring appropriate workplaces, implementing ideas for improvements and monitoring their effect constantly.

Our ESG strategy aims to create a responsible company culture and an inspiring work environment. This also includes diversity and inclusion at all company levels. We make a clear statement: our employees are our greatest asset and we treat everyone equally. Diversity & Inclusion Management is a fixed part of our HR policy and we reject discrimination of any kind.

We have implemented appropriate programs to ensure this mindset worldwide, such as the Whistleblower Policy, safety and HSE initiatives.

**ZERO-ACCIDENT  
STRATEGY ENSURES  
SAFETY AND WELLBEING  
OF THE EMPLOYEES**

**DIVERSITY & INCLUSION  
IS A FIXED PART OF  
KELVION'S HR POLICY**



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## SAFETY TOPIC OF THE MONTH

The "Safety Topic of the Month" (STM) is an initiative for our employees which is published monthly with the aim of raising awareness of a specific safety topic. The topics addressed are very diverse and particularly relevant for employees in production and service facilities. The STM material is provided to the employees via the intranet and blackboards in every production site globally.

Every STM focuses on a specific risk and explains clearly how this risk can be reduced through certain instructions for action. Building on the safety moment with the Safety Topic Of The Month, there is a checklist available for those responsible for occupational health and safety at the site to support safety and reduce risks.



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## GOLDEN RULES OF SAFETY

Kelvion has introduced the Golden Rules of Safety to further improve safety as a priority in the company and to support the zero accidents target. Part of this initiative is an employee training course, with detailed documents and instructions for action that have been developed for our production and service employees.

Based on the motto “We work together on our safety” the rules comprise the following:

- ▶ **No task is so urgent that it cannot be done safely.**  
It is worth taking the time to work safely if it means accidents can be avoided. No injury or death is worth the time that can be saved by skipping safety measures or working under stress. Everyone is responsible for their own safety and that of their colleagues.
- ▶ **We communicate openly.**  
When we find mistakes, we report them without fear of negative consequences. Our goal is to avoid them altogether in the future. An open error culture ensures that near accidents do not occur in the future and that bad accidents are avoided. Therefore, suggestions for improvement, own mistakes and near accidents may and should be communicated. Any risks or deficiencies that have occurred must be eliminated and reported to the supervisor.
- ▶ **At every workplace we consider whether we or others are at risk or whether a fire could occur.**  
Safety is not a status; it must always be re-established. Keep an eye open for risks so that you can avoid them. Any risk that arises must be mitigated.



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## HSE PROGRAM

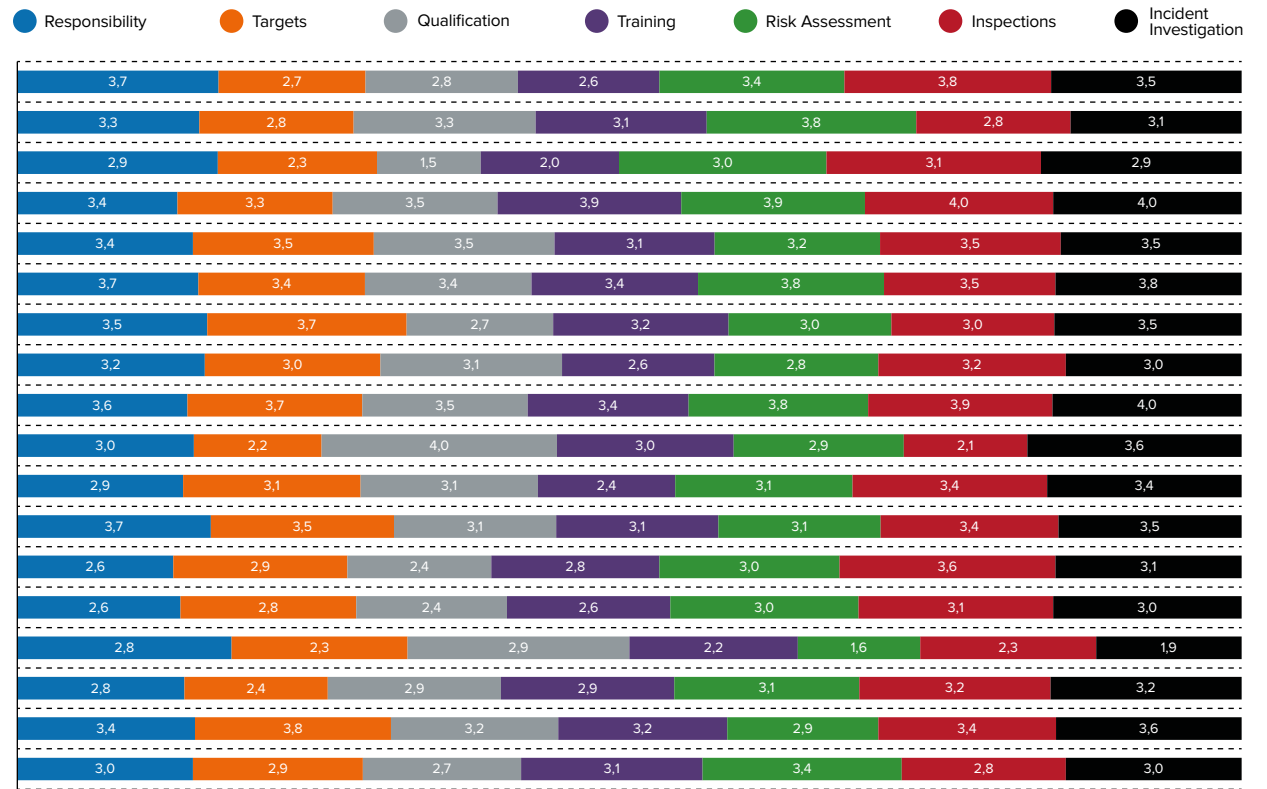
A global baseline has been defined to improve Health and Safety Management at all Kelvion production sites. This involved a self-assessment questionnaire, based on the scorecard, with 7 categories like targets, qualifications, risk assessment and with 10-15 questions each. These were then rated in 4 levels – 1 (lowest) to 4 (highest).

Based on the result, the following steps for 2023 have been identified:

- ▶ Connect lower scored sites with the high scores for the specific category
- ▶ Set up the call where they can discuss those subjects
- ▶ Prepare a cross check audit where the HSE Manager from one production facility will perform an audit on the other production facility.

All steps will further improve the score and promote a Health and Safety culture globally. We are going to use the same approach for Quality and Environment.

# SUMMARY OF RESULTS



<b>Responsibility</b>	Staff responsibility towards safety
<b>Targets</b>	Health & Safety goals and targets, including follow up
<b>Qualification</b>	Health & Safety qualification for staff and supervisors and employee training
<b>Risk</b>	Health & Safety risk for the company and workplace occupational risk
<b>Inspections</b>	Those responsible for Health & Safety at production sites, and preferably other employees, to carry our regular inspections
<b>Incident Investigation</b>	All the investigations from near misses to accidents, including root cause analyses and review of the risk assessment

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## DIVERSITY & INCLUSION

Diversity, equity and inclusion play an important role at Kelvion. It is our goal to have a diverse and talented team that also reflects the diversity of our stakeholders and business partners. Uniqueness and diversity of our employees represent a core value for us. We support a working environment which is free of prejudice and where everyone is treated equally.

Our commitment is to create and maintain a diverse, equal, and inclusive culture at Kelvion. Respective improvements are implemented in all HR processes in order to develop a working environment built on the premise of diversity, equity, and inclusion.

We believe that valuing diversity, equity and inclusion in all aspects of our business is a competitive differentiator, enabling us to attract and retain top talent, foster more innovation and creativity whilst being more productive, exceeding financial targets, and creating more value for our stakeholders, colleagues and business partners.

Kelvion's Diversity, Equity, Inclusion (DEI) Policy outlines sets out our aims and commitments in this area and we have planned several initiatives to increase understanding:

- ▶ Further examining Kelvion's current HR processes, particularly recruitment and talent management, to further attract women and diverse people to our company.
- ▶ Mentoring and bonding programs for women to foster networking activities and support professional development.
- ▶ DEI Training for management and employees.



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Kelvion supports human rights, fair working conditions, environmental protection and anti-corruption. So, acting responsibly is firmly integrated in all manufacturing and service processes. Compliance is a fundamental part of our company. Further, sustainability is playing a key role in our supplier management and we are striving for the highest level of compliance across all Kelvion functions and involved parties globally.

**SUSTAINABILITY AS A  
KEY ROLE IN KELVION'S  
SUPPLIER MANAGEMENT**



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## COMPANY GOVERNANCE, ETHICS AND COMPLIANCE

Kelvion conducts its business with openness, transparency, integrity, and respect for others. This means that Kelvion does not just follow all applicable laws and regulations in the countries where we operate but also follows high ethical standards of business conduct.

Kelvion's Leadership Team has established a global Compliance organisation, a Compliance group function and local subfunctions. This structure is supplemented by currently 32 regional Company Compliance Officers in 23 countries. The fundamental principles of Compliance management are set out in Kelvion's central Compliance Organisation Directive.



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## CODE OF CONDUCT

Our Global Code of Conduct gives guidance on the most relevant Compliance topics, like environment and safety, general business conduct, antitrust and competition, anti-fraud and anti-bribery, data protection and working conditions. Specific guidelines for the individual Compliance areas give detailed advice to all employees on how to conduct business in a compliant way.

**Kelvion Code of Conduct**

<https://www.kelvion.com/company/esg/g-governance>

# CODE OF CONDUCT



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## OPEN COMMUNICATION AND TRAINING

Each Kelvion employee is entitled and encouraged to contact his or her superior, line manager, HR, Legal, Compliance or Internal Audit department or the board level at any time if concerns arise or Compliance issues occur.

Kelvion has established a whistleblowing channel where employees or external stakeholders can raise concerns, get in contact with Kelvion Compliance or remain anonymous. All related concerns and hints are documented and followed up by Kelvion.

Further, Kelvion has established a Compliance training schedule for all employees, with different Compliance focus topics for each year; related trainings were conducted in the last four years. The focus for 2022 is anti-corruption and anti-bribery. A related online training and knowledge test available in 11 languages was conducted in October 2022.

The training was mandatory and participation monitored. Additional training for the Kelvion management level and Company Compliance Officers is planned for the end of 2022 and during 2023.



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## KELVION INTERNAL AUDIT

The Kelvion Internal Audit function is based on the International Standards of Internal Auditing as defined by The International Institute of Internal Auditors (THEIIA). Based on a perennial audit plan, internal audits are conducted regularly and are intended to ensure that appropriate processes are established and function properly.



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## SUSTAINABLE SUPPLY CHAIN MANAGEMENT

The Kelvion Procurement function is embedded in Kelvion's Supply Chain Management (SCM) organisation and is strategically managed centrally and operates on a regional/entity level, reflecting Kelvion's global matrix organisation. This approach will be supported by a commodity management model across the entire Kelvion Supply Chain Management organisation with the aim of standardising Kelvion's collaboration with suppliers whilst benefiting from the opportunities of a global supply base, for example, by pooling purchasing volumes, expertise, and technical knowledge.

### ESG management in Kelvion's Supply Chain Management function

Within Kelvion the Supply Chain Management function is clearly defined as one of the major stakeholders related to ESG. Evidence of this principle can be provided by:

- ▶ EVP Procurement is a member of the Kelvion Management Team
- ▶ Two out of nine members of Kelvion's ESG Committee are representatives from Kelvion's Supply Chain Management function.

Given that, globally, requirements relating to sustainability criteria are increasing, Kelvion's Supply Chain Management function decided to manage ESG in a balanced manner between country specific and global requirements.

Coupled with the large number of materials, and suppliers from various countries, this is the major challenge for Kelvion as it is often difficult to harmonise systems and processes that reflect global and local requirements. To manage this challenge, Kelvion Group defined the ESG requirements for its suppliers, based on the UN Global Compact and supplemented by country specific elements. Therefore the following modules are subject to Kelvion's ESG management, driven by Kelvion's Supply Chain Management function: *[See yellow box on the right side]*

Kelvion Supplier Code of Ethics	Environmental
Social	Governance
Modern Slavery Act 2015	Conflict Minerals
REACH	RoHS



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## RFI QUESTIONNAIRE ENSURES TRANSPARENCY

Verification and validation of suppliers' ESG performance will be managed via an ESG Supply Chain Compliance questionnaire RFI, to be shared with relevant suppliers at a minimum on a yearly basis. In addition to this approach, the ESG Supply Chain Compliance Questionnaire RFI can be shared at any time with each supplier.

Resulting from the ESG Supply Chain Compliance Questionnaire RFI 2022, 74%/273 suppliers (direct material/services only), representing 72% of Kelvion's annual purchasing volume 2021, responded. In addition to the above data Kelvion was not notified of any significant violations regarding ESG in the reporting year 2022.

### FACTS AND FIGURES

### ESG PROCUREMENT COMPLIANCE QUESTIONNAIRE RFI 2022

**14**

Kelvion Entities

**4**

Different RFI's

**400**

Suppliers included

**30**

Different countries

**78%**

Spend Volume



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# DECARBONISING BUSINESS WITH SMART HX TECHNOLOGY

Environmental degradation is constantly increasing the pressure to change production and consumption behaviour. The energy efficiency of heat exchangers has a significant influence on the energy consumption of processes in numerous industries.

Highly efficient heat exchangers enable customers to realise energy savings so that less climate-damaging CO<sub>2</sub> is emitted into the environment.

**HX AS A SERVICE:  
PAY PER USE OFFER  
FOLLOWING CIRCULAR  
ECONOMY PRINCIPLE**

**SMART HEAT EXCHANGE  
SOLUTIONS FOR  
GREEN HYDROGEN**



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# SMART HX TECHNOLOGY

## CIRCULAR ECONOMY PRINCIPLE HEAT EXCHANGE AS A SERVICE

Following the idea of a circular economy, both firms and customers should strive to conserve the use of resources in production as much as possible while deriving the maximum value, and finally regenerating and recycling materials and components at the product's end of life. Servitisation business models make it possible to implement a circular economy at a larger scale than regular service.






With Heat Exchange as a Service, Kelvion launched a circular business model benefiting resource efficiency and customers. Heat Exchange as a Service (HXaaS) is a carefree heat exchange service which is paid per use. It helps plant operators without deep heat exchange (HX) knowledge to recover and utilise waste heat efficiently and pass environmental audits. In contrast to the transactional sales of HX, HXaaS allows increased monetary savings and sustainability through reduced emissions while enabling customers to focus on their core business, with no CAPEX required. This supports CO<sub>2</sub> footprint reduction and allows flexible usage-based billing whilst Kelvion is ensuring highest possible HX performance through predictive maintenance.

### 99% REUSAGE OF MATERIALS

The customers' economic advantages of HXaaS come with even higher environmental benefits. Circular economy is implemented from end-to-end. Starting with a modular design for service and optimal material selection for a long product lifecycle to service concepts and a clear circular strategy at the end of usage. At the end of every HXaaS contract, more than 99% of all used materials can be reused at least once before recycling is required. Initially, HXaaS focuses on waste heat recovery application to support the reduction of fossil energy consumption. More application areas are planned.


## STANDARD

without Full Maintenance

-  **Latest Heat Exchange Technology**
-  **Optimal Design of Heat Exchangers**
-  **Transport, Installation and Commissioning**
-  **Periodic Inspection**
-  **Return of Heat Exchangers**

## SERVICE

with Full Maintenance

-  Individual Contact
-  100% Service by Kelvion
-  Predictive Maintenance

## SMART with Intelligence

-  Performance Monitoring
-  Tracking of CO<sub>2</sub> Reduction
-  Recommending Optimizations



+ ADD ON

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# SMART HX TECHNOLOGY

## GREEN HYDROGEN

Hydrogen plays a crucial role in the ongoing energy transition, as it allows the storage and transport of energy from renewable sources like wind or solar power. In addition, emissions resulting from hydrogen combustion are almost limited to water.

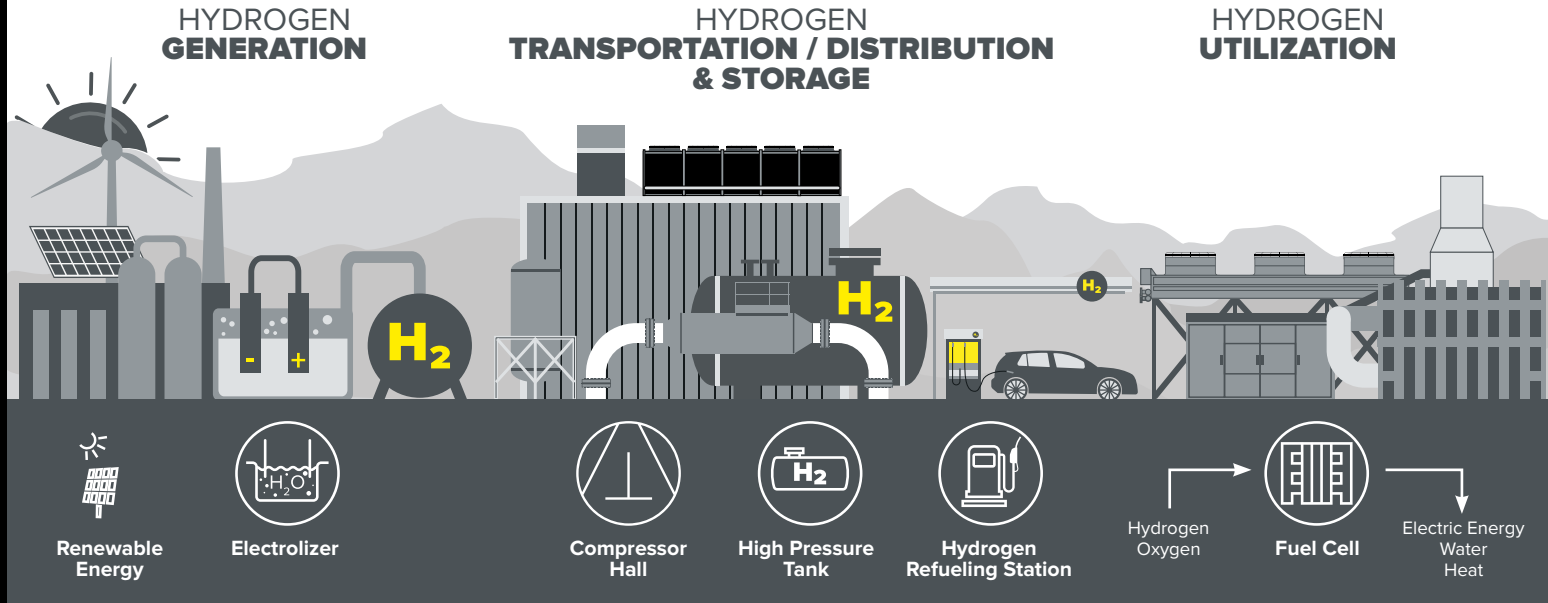
Kelvion grew together with major industries and is now ready to deploy its extensive experience to face the energy transition – one of the biggest global challenges. To support industrial net zero target, Kelvion is focusing on the production of blue and green hydrogen. Our products for green hydrogen ensure efficient heat transfer and a large variety of designs, sizes and accessories.

For different electrolysis processes, Kelvion can supply various types of gasketed plate heat exchangers which have a proven track record in the classical power industry. The dry coolers and radiators which emerge from refrigeration applications and Air Fin Coolers with impressive track record in the Oil & Gas industry are now successfully for heat rejection.



### Integrated Solutions

Rapid developments in the hydrogen market may require outside the box solutions. Fortunately, Kelvion is able to prepare tailor-made solutions with multiple product lines working in series. A great example of such an approach is a fuel cell heat recovery unit in the form of a column consisting of 4 heat exchangers.





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## IMAGES

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ABOUT  
KELVION



FOREWORD



KELVION'S  
R3 PROGRAM



E | ENVIRONMENT



S | SOCIAL



G | GOVERNANCE



SMART HX  
TECHNOLOGY