



SUSTAINABILITY REPORT 2021

BREATHING LIFE INTO THE CITIES





Sustainability Report 2021

This report provides highlights of our sustainability efforts and how we are working towards reducing our impact on nature. Our sustainability activities aims to assist to breathe life back into our cities and its surrounding areas, across the world where Camfil works. According to the World Economic Forum, more than half of the world's GDP is dependent on nature and functioning eco-systems. It is, therefore, in all our interest to work towards a sustainable balance between humans and our planet.

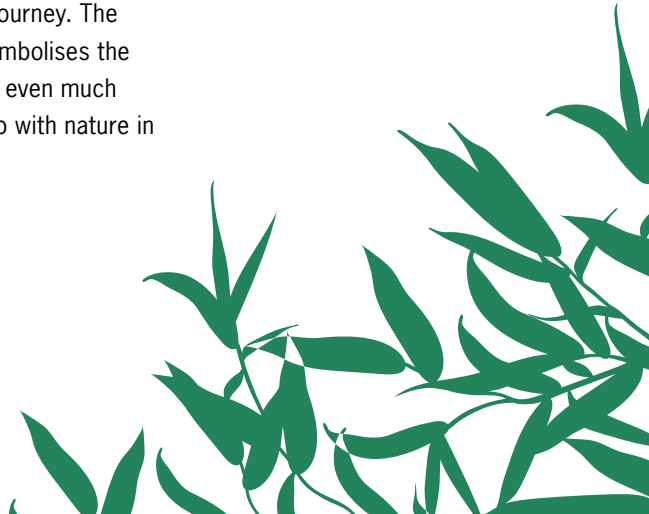
For the past nearly 60 years, our mission has been to deliver products and solutions for indoor air quality to protect people – but we do so very much aware of how we can do this in more sustainable ways to create a better future for all. Our sustainability efforts range across our business globally with our products; in production; across the supply chain through to product innovation to reduce energy consumption for our customers.

We work on all aspects of sustainability from responsible business and employee commitments; trade compliance and policies; sustainable society with the United Nations Sustainable Development Goals to the United Nations Compact and the ten Human Rights principles.

The continued COVID-19 pandemic in 2021 highlighted the importance of indoor air quality (IAQ). We continued with our business mission to protect people with IAQ products and services. The interconnected relationship between people and the environment became visible as well in our cities, across the world in 2021. During the COVID-19 pandemic lockdowns many cities, being much more quiet, resulting in animals exploring the empty streets and surrounding areas.

Camfil aims, in its sustainability journey going forward, to continue to mould a strategy to have a positive relationship with nature wherever it works in the world. This is essential as it is directly related to the social and economic factors affecting humans too.

Our theme for 2021 – Bring life back into the cities, represents how we at Camfil have been working on all sides possible in our business for our sustainability journey. The soft fade-in of animals on the city rooftops on this report's front page symbolises the efforts and results we have achieved in 2021 and our commitment to do even much more in future, to bring about a more positive interconnected relationship with nature in all the locations that we work globally.



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Our commitment goes beyond policies and procedures as we support and comply with United Nations Global Compact's principles



INTRODUCTION

Breathing life back into the cities and surrounding areas

ENERGY EFFICIENT AND WORLD-LEADING AIR FILTRATION SOLUTIONS FOR INDOOR AIR QUALITY

Our foundation as a company has always been to provide high quality air filtration solutions that enables people to breathe clean indoor air and thus promoting their health and well-being.

This commitment has manifested itself even more during the global COVID-19 pandemic. Our focus and determination to protect our employees, our customers, their end users and our suppliers has never been stronger than through this global health crisis. We are proud that our expertise in filtration of harmful particles, including viruses, has helped provide sustainable indoor air environments in many essential function areas these past two years.

In this report, you will see many examples of Camfil's sustainability efforts in 2021 and how they have had a positive effect on our operations, our customers and the world around us.

Camfil products contribute to energy savings, less CO₂ emissions and have a longer filter life, protecting people and processes. Working with Camfil's Life Cycle Cost Tool and Environment Product Declarations, makes it possible to calculate the environmental performance of Camfil's products over their life cycles and to calculate their environmental impact.

Learn in this sustainability report about our products and solutions that create a more positive interconnected relationship with nature. Read more about our sustainability actions across the group that support and show why the theme for 2021 is so right – Breathing life back into the cities and surrounding areas.



Camfil Highlights from 2021

Q1 | Q2 | Q3 | Q4



Highlights Q1



UNIVERSITY-INDUSTRY COLLABORATION

Camfil Malaysia increased collaboration with UTAR university in Malaysia for knowledge exchange, upskilling of staff and students, and acceleration of innovative processes and job-creating products and services.



A PODCAST SERIES ABOUT INDOOR AIR QUALITY IN CITIES

The purpose of our podcast, Let's Talk Clean Air, is to educate and raise public awareness about the importance of good air quality in our buildings.



STARTED UP MORE SUSTAINABLE LOCAL PRODUCTION

In support of the semiconductor, life science, and turbomachinery industries, Camfil opened a new air filtration facility in Tainan, Taiwan, where waste handling is reduced via reuse and recycling of filter components.



AN ACCREDITED TRAINING PROVIDER IN FOOD AND BEVERAGE SECTOR

Camfil became an accredited training provider for air quality standards to help the food and beverage industry understand air quality requirements, air filter specifications and how to protect themselves from viruses.

CAMFIL'S EMPLOYEE SURVEY "CAMPAIR" SHOWED EMPLOYEES CARE ABOUT SUSTAINABILITY

Our CampAir employee survey showed that we have many motivated employees who share Camfil's vision and values. For example, 89% agreed that "my work helps protect people, processes and the environment".

Highlights Q2



CAMFIL MARKET POSITION IN AUSTRALIA AND NEW ZEALAND

We completed the consolidation of two acquired businesses, Airepure and FilterTech, into Camfil Australia. This strengthened Camfil's position as a leader in air filtration in Australia and New Zealand.



PARTNERSHIP WITH CHINESE PHARMA GROUP

Camfil entered into a strategic partnership with Sino GEPTECK (Shanghai) Corporation, a subsidiary under Sinopharm, a Chinese pharma and healthcare group. The partnership is around raising air filtration standards for high-risk areas and cleanrooms in the biopharma industry.



DONATION OF AIR PURIFIERS TO CITY LIBRARY

Camfil Italy donated several City M air purifiers to the reading room at Il Pertini Cultural Centre in the city of Cinisello Balsamo. This helped ensure a safe reopening for visitors in the wake of the Coronavirus-19 pandemic.

MAKING BOAT RACING MORE SUSTAINABLE WITH HYDRO-POWER

Camfil collaborated with a student team from Delft University of Technology to produce a "flying" racing boat powered by hydrogen. A project that illustrates how you can make the maritime sector more sustainable.

Highlights Q3



STUDY SHOWED AEROSOL REMOVAL AT FOUR TIMES NORMAL RATE

WHO declared that COVID-19 is mainly transmitted by inhaling airborne aerosols in close range. In a study, University College Dublin and Dublin's Mater Hospital found that Camfil's City M air purifiers removes aerosols from poorly ventilated rooms at four times the normal rate.



REDUCED CO₂ EMISSIONS AT POWER PLANT

A Camfil solution reduced CO₂ emissions from gas turbines by 1,100 tons annually at Alto Garda Power's power plant in Italy. It also resulted in significantly lower pressure drop, longer filter lifetimes and major fuel consumption savings.



A HEALTHIER SCHOOL ENVIRONMENT IN CITY OF LONDON

To create a healthier school environment and reduce the spread of airborne viruses, Soho Parish Primary School in London, in consultation with Camfil, acquired 13 City M purifiers.

WON SUPPLIER OF THE YEAR AWARD

Camfil won the Supplier of the Year award at the Climate Control Awards in Dubai, United Arab Emirates, for "serving regional and global communities in mitigating the climate crisis and in safeguarding the built environment".

ISO 45001 AND ISO 14001 AUDITS PASSED

Our plant in Kunshan, China, successfully passed ISO 45001 and ISO 14001 annual audits, with zero non-compliance findings for the year 2021.

CLIMATE CONTROL
AWARDS 2021

Manufacturer/Supplier of the Year (Air Treatment)
Camfil Middle East



Highlights Q4



LAUNCHED NEXT-GENERATION PANEL AIR FILTER

We launched CamClose, a next-generation panel air filter designed to extend service life of final filters for turbomachinery and gas turbine applications. It also contributes to higher power output and lower fuel consumption.



HELPED VISITORS BREATHE EASIER

As an official sponsor of the Swedish pavilion, The Forest, at the Dubai world EXPO, we helped visitors breathe easier by supplying Dynavane filters – which remove 95% coarse dust and 78% fine dust – as well as panel filters, bag filters, and air purifiers.



CUTTING TRANSPORT EMISSIONS

Our Swedish factory changed the inbound transport set-up from their biggest supplier from road to rail, reducing CO₂ emissions upwards of 120,000 kg annually.



CITY ODOUR PROBLEMS ELIMINATED

A Camfil molecular housing and carbon filter solution eliminated odour problems at Middelfart's wastewater plant.

NEW GLOBAL AIR QUALITY GUIDELINES PUBLISHED FOR BETTER PROTECTION OF PEOPLE IN CITIES AND MAJOR AREAS

WHO released updated global air quality guidelines on air pollution to protect the health of populations by reducing key air pollutants. A major step for the air filter industry as the focus is on better quality and upgraded filter classes

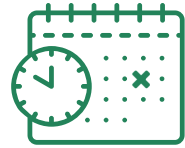
This is us

– who we are, what we do,
why we care



HQ

in Stockholm, Sweden



55+

Years of Clean Air Solutions. Camfil
AB was founded in Trosa, Sweden,
1963 by Gösta Larson



5200

Employees



9800

Million SEK net sales



31

Manufacturing sites



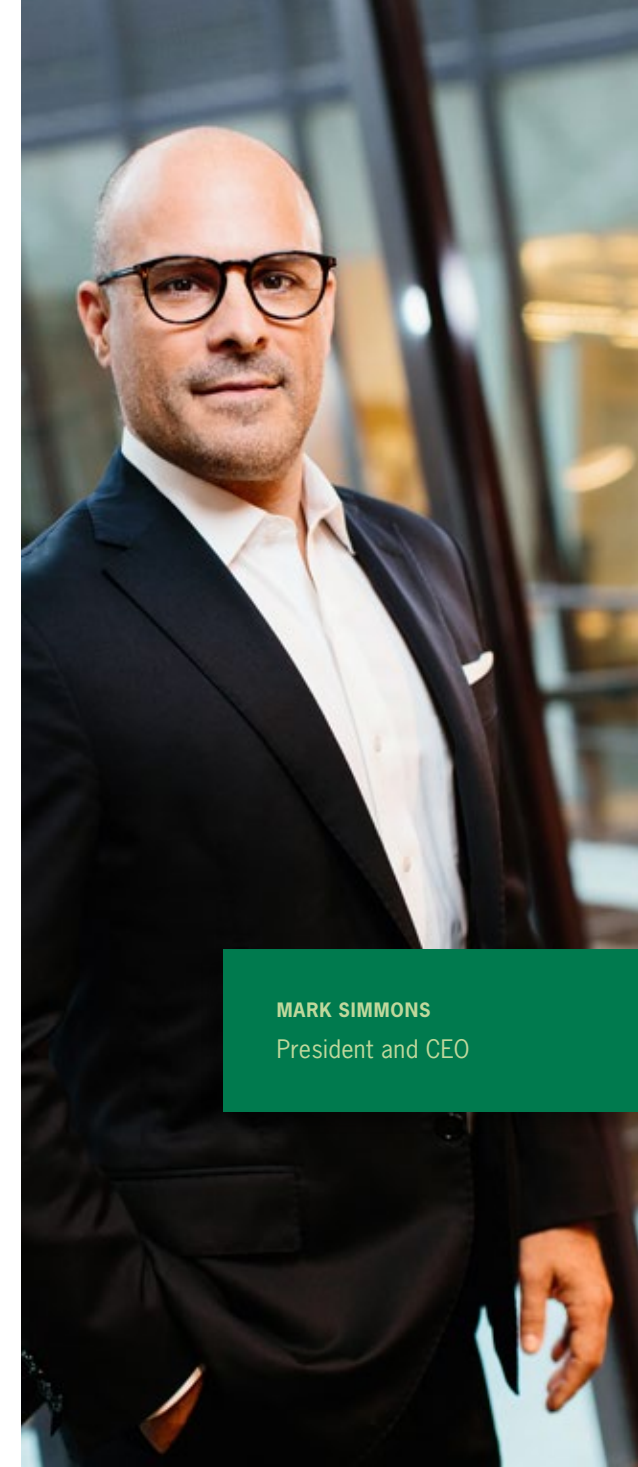
6

R&D centres



35+

Countries with sales offices



MARK SIMMONS
President and CEO

About Camfil

We are a Swedish, family-owned shareholding company founded in 1963 and headquartered in Stockholm, Sweden.

-  HEAD OFFICE
-  PRODUCTION UNIT, INCL. SALES
-  SALES OFFICE

Camfil agents/distributors are not included on this map. To find Camfil agents and distributors, please use the contact locator at www.camfil.com





Vision Statement

We like to phrase our vision statement as a question to create a debate and raise awareness – "Clean Air – a human right?"

Mission Statement

Our mission is to protect people, processes and the environment by defining, developing and delivering solutions that combine clean air with energy efficiency in a sustainable and profitable way.

Growth and Profitability Goals

Camfil's goal is to achieve organic growth well above market growth with maintained profitability.

Core Values

RELIABILITY

We are reliable because we know the market; we are honest and truthful. Our people, products and processes must always meet, or exceed, agreed results.

COMMITMENT

We are committed to always striving for the best possible solutions, and we are at the forefront of technological and environmental developments in our fields of expertise.

CUSTOMER SATISFACTION

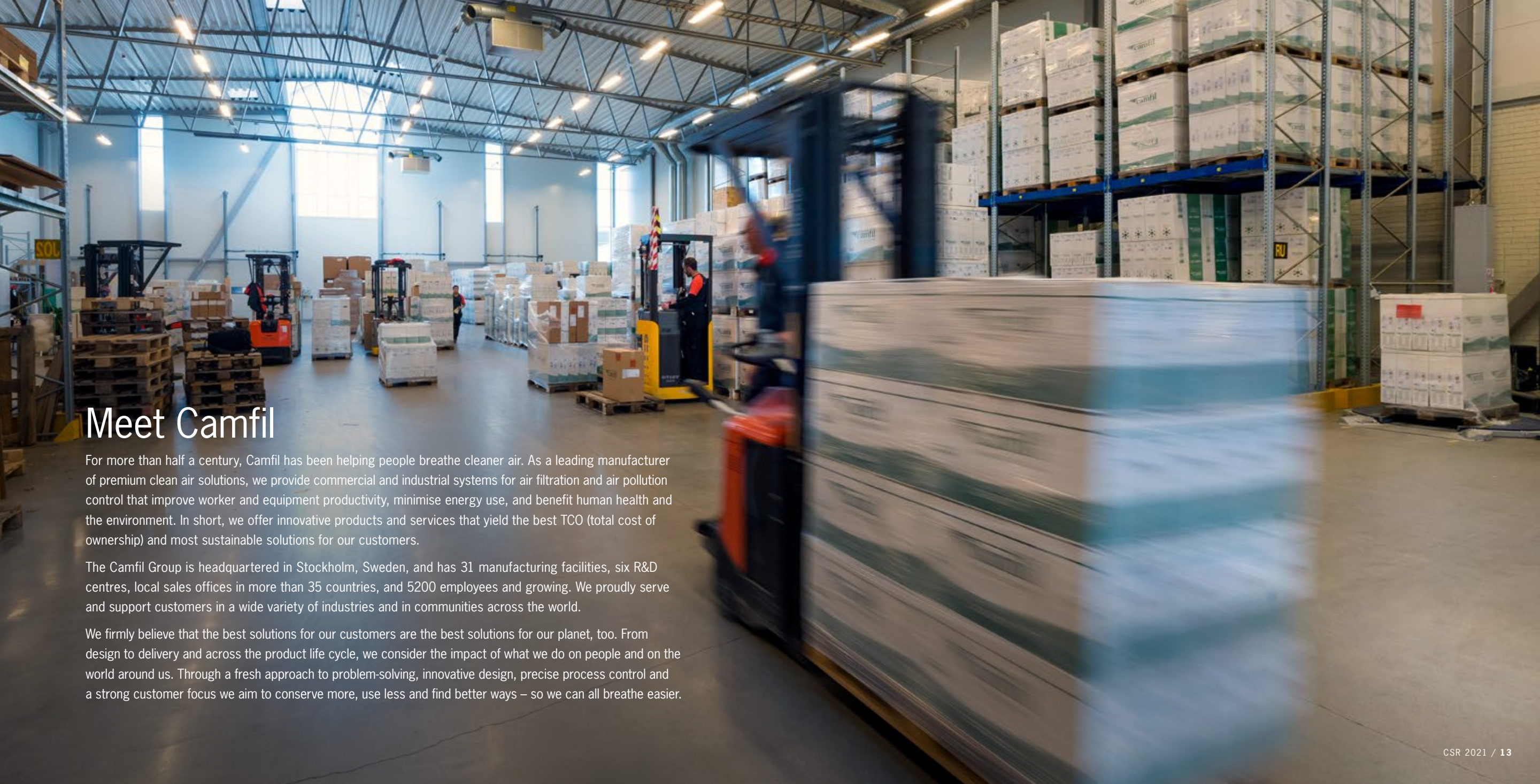
We put our customers first. We focus on identifying customer needs and creating long-lasting customer value.

TEAMWORK

Working together makes us stronger and increases employee satisfaction both locally and globally.

LOCAL PRESENCE

Local understanding and presence in local markets builds customer relations and satisfaction.



Meet Camfil

For more than half a century, Camfil has been helping people breathe cleaner air. As a leading manufacturer of premium clean air solutions, we provide commercial and industrial systems for air filtration and air pollution control that improve worker and equipment productivity, minimise energy use, and benefit human health and the environment. In short, we offer innovative products and services that yield the best TCO (total cost of ownership) and most sustainable solutions for our customers.

The Camfil Group is headquartered in Stockholm, Sweden, and has 31 manufacturing facilities, six R&D centres, local sales offices in more than 35 countries, and 5200 employees and growing. We proudly serve and support customers in a wide variety of industries and in communities across the world.

We firmly believe that the best solutions for our customers are the best solutions for our planet, too. From design to delivery and across the product life cycle, we consider the impact of what we do on people and on the world around us. Through a fresh approach to problem-solving, innovative design, precise process control and a strong customer focus we aim to conserve more, use less and find better ways – so we can all breathe easier.

Why we care ...

Making indoor air safer to breathe

Many people aren't aware that the air they breathe indoors can be more polluted than the air outdoors. Camfil advocates educating people about the potential harms of poor indoor air quality. Here are some facts about the air we breathe and why it matters.



Understanding PM₁



The indoor environment can be up to 50 times more polluted than outdoor air.



We spend up to 90% of our life indoors.

PM₁ Everyday exposure



We Eat 1kg Food



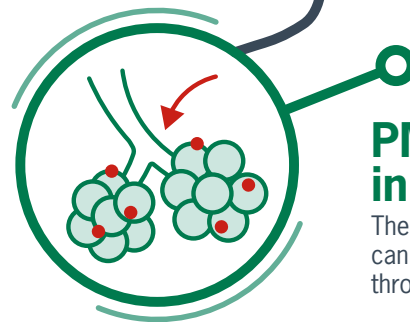
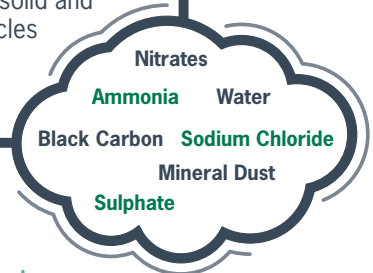
Drink 2kg Beverage



Breathe 15kg Air

What makes up PM₁

PM₁ comprises of a mixture of solid and liquid particles

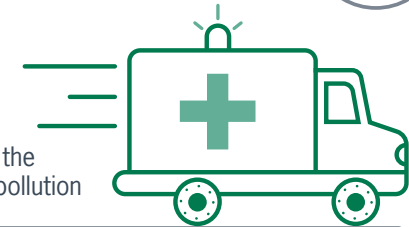


PM₁ Particles in the blood

These very small particles can reach the lungs and pass through the cell membranes

5.5 million

Premature deaths around the world each year from air pollution



This means that indoor air quality can substantially influence our health

... about size

Let's compare different sized particles

The blue whale, elephant and man are a good analogy for 10µm, 2.5µm and 1µm sized particles in terms of their relative size and relative mass and the number in our environment.

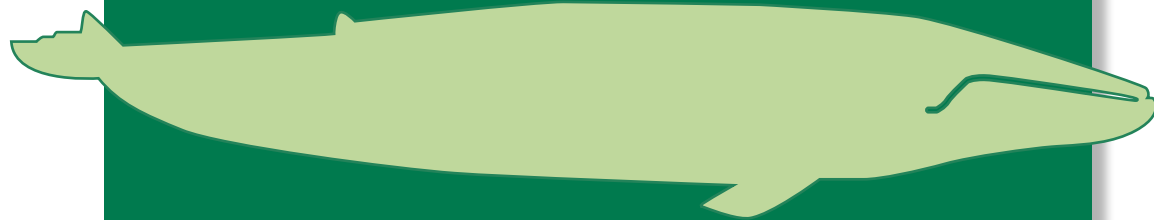
1µm PARTICLE | HUMAN | 80 KG
MORE THAN 7 BILLION LIVING



2,5µm PARTICLE | ELEPHANT | 6 TON
LESS THAN 1 MILLION LIVING

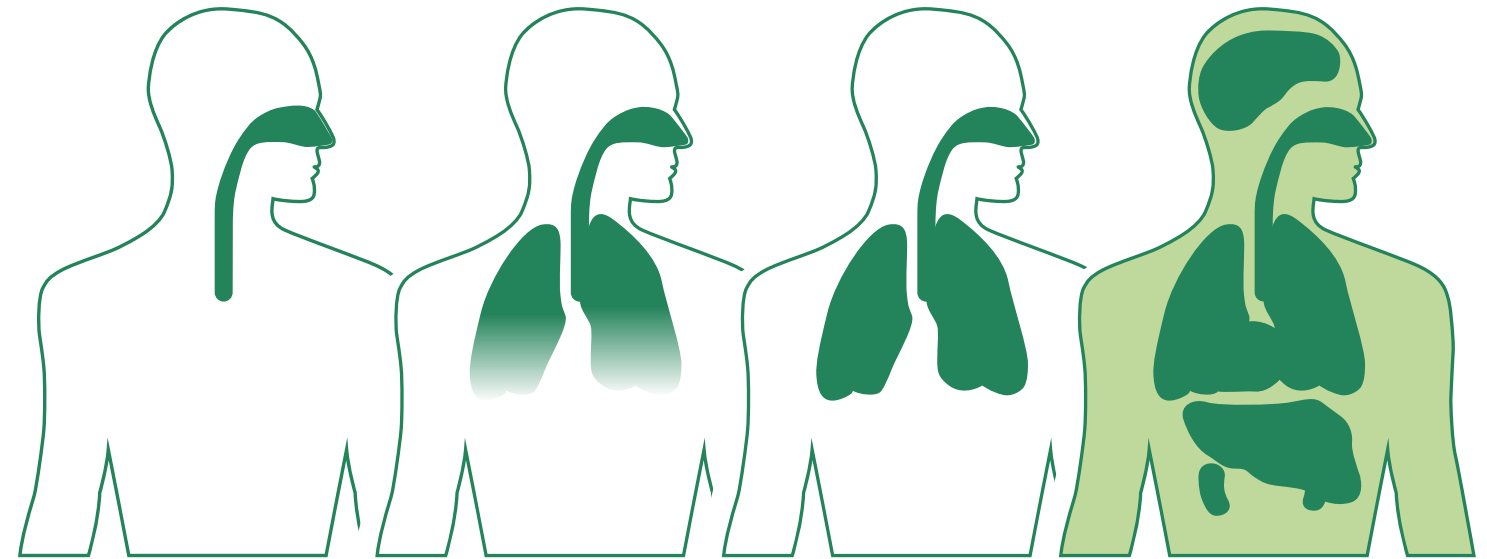


10µm PARTICLE | BLUE WHALE | 200 TON
LESS THAN 25,000 LIVING



Why particulate matter matters

Just like people themselves, particulate matter (PM) comes in different shapes and sizes. The smaller the PM diameter, the greater the risk of PM getting deep into the lungs and bloodstream. Here's how particles and gases penetrate the human body.



Size ~10µm – Coarse particles that reaches the respiratory ducts and can cause decreased lung function.

Size ~2.5µm – Fine particles that can penetrate the lungs and cause decreased lung function, skin and eye problems etc.

Size ~1µm – Inhalable particles can enter the blood stream and lead to tumours, cardiovascular diseases, dementia, etc.

Size ~0.1µm – Ultrafine particles, small enough to pass through the alveoli cell membrane into the blood stream.

United Nations Global Compact

The United Nations Global Compact was established to encourage businesses around the world to embed responsibility into their activities. Camfil is a member of the Compact and supports its ten principles and four overarching areas – human rights, labour, the environment and anti-corruption. In fact, our own defined vision is to help make clean air a human right.

We comply with and promote these principles throughout the company, and we report on their progress in this sustainability report. This year, as every year, we updated and submitted a Communication on Progress (COP) to the Compact website as a record of our ongoing commitment. Other examples of this commitment include the following policies and guidelines:

- **CODE OF CONDUCT FOR BUSINESS PARTNERS**
- **CODE OF CONDUCT FOR EMPLOYEES (CAMFILCAIRING CODE)**
- **OWNER'S DIRECTIVE**
- **HEALTH AND SAFETY HANDBOOK**
- **IT SECURITY AND DATA PRIVACY POLICIES**
- **WHISTLEBLOWING POLICY**
- **TRADE COMPLIANCE POLICIES**





United Nations Sustainable Development Goals

The United Nations 17 sustainable development goals (UNSDGs) and related targets aim to fight inequality, end extreme poverty and protect the world we live in. To achieve the SDGs, businesses must make significant efforts. They must adopt a sustainability mindset, anchoring sustainability in company strategies, core business activities and employee behaviours.

WE WORK TO BREATHE LIFE BACK INTO CITIES AND SURROUNDING AREAS WHERE WE WORK, IMPACTING NATURE AND PEOPLE IN A GOOD MANNER



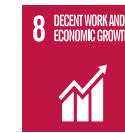
For the best indoor air quality to promote good health and well-being, Camfil offers high-efficiency air filters to remove harmful particles and contaminants in ventilation air, as well as air pollution control systems that collect dust, fume and mist in manufacturing for safer work environments.

This is an area where our ambition to always provide better filtration for both particles and gases can help to give people a better life. Once again, it is an ongoing effort where we continue to mix smaller incremental changes with bigger step changes.



Camfil's air filters and clean air solutions are the most energy-efficient on the market and create more sustainable buildings in cities around the world.

WHERE WE CAN REDUCE THE NEGATIVE IMPACT OF OUR OPERATIONS



We provide satisfactory working conditions for more than 5 200 employees at 31 manufacturing sites backed by strong human resource management and local employee care and health programmes. This global workforce steadily helps us to increase our annual sales and earnings to contribute to economic growth in more than 35 countries.

We need to continue this work and also ensure that our partners, suppliers and distributors also help contribute to this goal. We do so by strengthening the requirements for the companies we work with to ensure they also provide decent working conditions. In addition to this, we support their growth by doing more business together to ensure economic growth.



The environmental impact of Camfil's production plants is being continuously reduced each year through in-house improvement measures and green initiatives to conserve energy, water and reduce landfill waste. This work will never be complete, and we will continue to improve our own operations and, in addition, work on minimising the environmental impact of our products during their lifetime. There are also SDGs where Camfil can contribute positively with our knowledge and expertise.

4 GOALS WHERE WE MAKE THE MOST IMPACT

CAMFIL SUPPORTS ALL 17 UNSDGS BUT HAS IDENTIFIED FOUR GOALS WHERE IT CAN MAKE THE MOST IMPACTFUL CONTRIBUTION.





MARK SIMMONS, PRESIDENT AND CEO OF CAMFIL

"Since more than half a century – sustainability is not just something we do, it is who we are."

WHAT ARE YOUR THOUGHTS ON 2021?

We live in challenging times. The global pandemic these past two years has been tough on the world on so many levels. Our top priority has of course been and will always be to protect our employees as well as our customers and suppliers. To help safeguard their health and well-being is the only sound and sustainable thing we can do.

We are also in a climate crisis. Camfil, and other commercial enterprises, have a great responsibility to contribute all that we can for a more sustainable planet. We don't wait for someone else to go first and do the right thing. We are happy to be at the forefront when it comes to sustainability in our industry.

ANY WORK IN THE FOREFRONT YOU WANT TO MENTION?

We are doing some very exciting sustainability work via Life Cycle Assessments (LCAs) and Environmental Product Declarations (EPDs).

Thanks to the EPD standard we can compare the environmental performance of our products over their life cycles and calculate their environmental impact. The EPDs indicate climate-affecting emissions, acidification, impact on the ozone layer and more, as well as resource consumption.

WHAT WERE SOME OF THE MAJOR BUSINESS CHALLENGES AND HIGHLIGHTS IN 2021?

The COVID-19 pandemic continued to bring some uncertainty to Camfil's operations in 2021. Our four business areas were impacted in different ways and we had some extra tough challenges in the supply chain. Increased prices for inputs and transport had a negative impact in the wake of the pandemic.

Despite these disturbances, our sales growth was strong. On the whole, the company adapted well to the new circumstances and we were able to meet an even higher demand for certain products.

In order to maintain and expand our production capacity, we kept up our high pace of investment in buildings and production equipment.

CAMFIL INVESTS HEAVILY IN R&D, WHY IS THAT?

We see an increased awareness around the importance of clean, healthy and sustainable indoor air. This has been even more evident during the pandemic when the removal of harmful pathogens has been high on the agenda all over the world.

The global demand for highly effective and sustainable air filters – protecting people and offering less environmental impact – is steadily increasing.

“ We don’t wait for someone else to go first and do the right thing.”

Among other things, we meet this demand by investing heavily in Camfil’s research and development capabilities. We have six R&D centers worldwide and our flagship facility is the Tech Center in Trosa, Sweden.

We have been expanding the Tech Center, both in square meters and in terms of what research we are able to perform there. The new extension, which almost doubles the size of the premises, is for test and learning methods. It is also for machine upgrades and process development, including research on and development of raw materials so we can continue deliver products with even higher performance.

WHAT ABOUT EMPLOYEE AND PARTNER SUSTAINABILITY?

In 2021, we implemented a new Code of Conduct for our employees. A guide for the daily work here at Camfil. The purpose is to promote a sustainable work environment where people thrive and are productive. We are a family-owned business with 5 200 highly valued “family members”, who I all wish will have a long and prosperous Camfil career.

We also implemented a new Code of Conduct for our Business Partners. It requires them to sign-off on our Code of Conduct if they want to keep working with us. This means that they commit to do business in a manner that is fair, reliable and transparent, and to comply with applicable laws, regulations and binding voluntary commitments.

ANY SUSTAINABILITY INITIATIVES YOU WANT TO MENTION?

We had so many great sustainability projects and initiatives last year and I can’t mention them all. So, these are just a few that come to mind.

We started up more sustainable local production at a new air filtration facility in Taiwan – where waste has been reduced thanks to a manufacturing process that promotes reuse and recycling of filter components.

To raise awareness and educate the public on the importance of indoor air quality, we launched a new podcast series, Let’s Talk Clean Air.

In 2021, our Swedish factory took successful actions to reduce emissions from transports of materials to the facility. They worked with two of their largest inbound raw materials suppliers in shifting the suppliers’ transports from road to rail. This generated savings in CO₂ emissions of upwards of 120,000 kilos annually.

Camfil Italy donated City M air purifiers – with H14 filters and activated carbon filters – to a cultural center in the city of Cinisello Balsamo to help ensure a safe reopening for visitors after the Italian COVID-19 lockdown.

We also celebrated our CSR commitment through our annual and global CamfilCairing week – during which we have sustainability activities that inspire and educate ourselves as well as assist our local communities with indoor air quality.

HOW CAN SOMEONE LEARN MORE ABOUT CAMFIL’S SUSTAINABILITY WORK?

You are always welcome to contact one of our local offices. Our very competent staff all over the world are more than happy to to share our knowledge and insights. Another way is of course to keep reading our Sustainability Report and subscribe to our monthly newsletter. All our communications convey our deep commitment to sustainability in all parts of our operations. It’s like we say: Since more than half a century – sustainability is not just something we do, it is who we are.

Owner's Directive guides and shapes our company

Camfil's Owner's Directive is a key strategy document which demonstrates the owners' shared vision, unity and clarity of ambition around the company's values and direction.

Key guiding principles



Clean Air – A Human Right?

This vision is intimately linked to issues of sustainability and human rights. Our vision embodies our role as champions in the fight against indoor air pollution and elevates the issue of clean air as a basic human right. It aligns with UN sustainable development goal 3 (Good health and well-being) and goal 13 (Climate action).



Sustainability

Our core tenet is that sustainability is not something we do – it should be who we are. We were the first company in our industry to produce a voluntary sustainability report more than 10 years ago. Today, we continue to set new KPIs and goals for environmental, social and economic sustainability that will positively impact our workforce, our customers and other stakeholders.



Innovation Leader

We are not just a manufacturer of clean-air products. We are an expert in the field of air quality and innovate continuously to produce air filters that are more efficient and use less energy. Because we manufacture in-house, we can better uphold our strict quality standards as well as gain the flexibility to adapt to changing market and customer requirements.



Cool Heads, Passionate Hearts & Clean Hands

Another important aspect is the way Camfil does business. We operate to the highest standards and have many policies in place governing our behaviour internally and towards the customer. The products we sell to our customers are the same ones we trust and use ourselves. And we want it to be clear to everyone in the company that they must step away from a deal if they feel it might be in conflict with Camfil's values.



BUSINESS AREAS

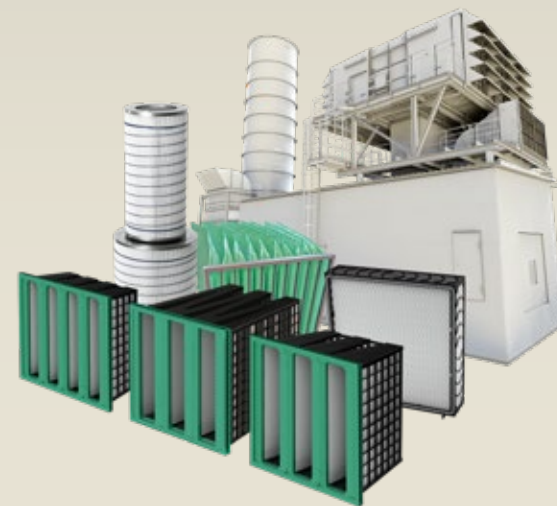
FILTRATION SOLUTIONS (HVAC)



AIR POLLUTION CONTROL



POWER SYSTEMS



MOLECULAR CONTAMINATION CONTROL





Filtration Solutions

Camfil's filter offering constitutes the majority of our business. We offer a wide range of high quality, thoroughly engineered and tested solutions for nearly any filtration or containment need. Whatever the product the end effect is clean air – free from harmful pollutants, dust, dirt, allergens, radiation, molecular gases and, in some cases, even life-threatening viruses.

How Camfil filtration solutions benefit people, processes and the environment

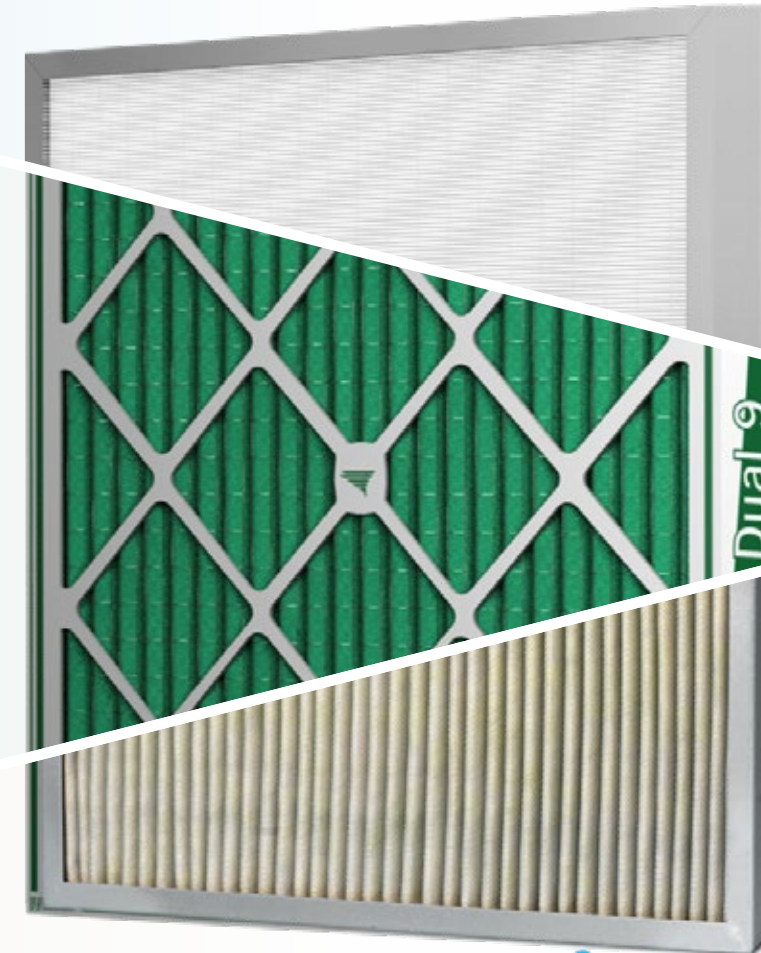
Our filters benefit customers and the wider society by improving people's health and performance, protecting critical manufacturing processes, boosting productivity and safeguarding the environment. They are proven to be some of the most energy-efficient air filters on the market today, so they also help building owners reduce their energy consumption and carbon footprint. And through this, they help to lower the significant operational costs associated with customers' HVAC systems.

We generally categorise our filtration solutions into three main benefits: comfort, clean process, and containment. Our "comfort" air filters are found in heating, ventilation and air-conditioning (HVAC) systems in places like offices, schools, commercial buildings, government buildings, homes, hospitals and airports. These products deliver clean air that protects people by improving the indoor air quality (IAQ), protecting the HVAC system from contamination, and helping the building owners reduce their energy consumption and carbon footprint.

In cleanroom processes, our efficient particulate air (EPA), high-efficiency particulate air (HEPA) and ultra-low particulate air (ULPA) filters protect sensitive

advanced manufacturing processes, prevent microbiological contamination in research labs, and eliminate infectious airborne contaminants in the healthcare sector. In heavily regulated industries with strict quality requirements, at manufacturing plants that produce pharmaceuticals, food, or for critical laboratory services, our filters protect the people involved in the processes and ensure the integrity of what is being produced to reduce both human and financial risks.

In the healthcare industry, they meet the most demanding needs and safety standards to contain and serve as the main barrier against highly hazardous biological agents and microorganisms. Camfil has provided top-level biosafety laboratories with air filter systems and filter housing to prevent the release and spread of microorganisms that cause life-threatening diseases like the Coronavirus-19, Ebola, SARS, polio and many more.



New filter products and tools

LIFE CYCLE COST TOOL (LCC)

Shipping, installation and lost production during filter replacement can be obvious and easily accounted for. When it comes to the indirect impact of better filtration, such as the value of reducing fouling against the cost of higher pressure drop, making a full evaluation is not as straight forward.

More and more operators requested filter systems be optimised to increase power output, minimise maintenance requirements, reduce fuel costs and CO₂ emissions, to maximise profitability. With our extensive R&D facilities and field data, Camfil developed a reliable software, the Life Cycle Cost (LCC) tool, for operators to evaluate total cost of ownership.

This eliminates the guess work related to the indirect cost of air inlet filters, thus highlighting the major impact they have on the bottom line of the operator.

The LCC is another example of how technology solutions in Camfil contributes to sustainability efforts.



AIR IMAGE SENSOR SYSTEM – SENSOR SENSIBILITY FOR LOWER ENERGY USE AND MORE PRODUCTIVE INDOOR AIR

Utilizing Camfil's intelligent Air Image sensor system leads to lower energy consumption and improved indoor air quality also. As well as better control of the air cleaner.

In most operations, the number of particles in the air varies during the day – depending on the level of activity and what the activity is. This means that there is no need for Camfil's air cleaners to constantly operate at the same level.

When the air cleaner is connected to Camfil's Air Image sensor system, the sensor raises and lowers the air cleaner's operating level depending on the number of particles and the amount of gases in the air. The benefit is reduced energy consumption. And a healthier and more productive indoor air environment, as well as longer filter life.

The Air Image sensor system also lets you remotely control your air cleaner and monitor the status of each filter via a computer, tablet or phone from anywhere in the world.

The system measures particle sizes PM1, PM2.5, humidity (RH) and room temperature in real time. It compares these measurements for compliance with WHO guidelines regarding healthy indoor air. For documentation of the indoor air quality, the sensor can produce an "air image" – a detailed air-quality report. It also sends a reminder when HEPA filters are due for replacement.



BENEFITS OF AIR IMAGE SENSOR:

- Syncs with Camfil air cleaners to get real-time data on each filter instance anywhere in the world
- Measures and compares against WHO guidelines to ensure buildings comply with thresholds
- Reporting tool allows full visibility to management and auditors
- Reduces energy costs through smart operations
- Improves the operational lifetime of filters



The show goes on at Music City Center – with dramatically lower cost for maintenance and energy

Imagine a 2.1 million square foot (195,000 m²) facility with 46 large air handling units that have a total of 1,048 air filter openings. A facility with enormous potential for reduced energy and maintenance costs. As well as a huge potential for improved indoor air quality. That was the situation at Music City Center, located in downtown Nashville, the world-famous music city in the American southern state of Tennessee. Music City Center is a popular convention center for industry exhibitions, art shows, concerts and more.

FINDING THE OPTIMAL SOLUTION

When Music City Center's air filtration contract was near its end, their Director of Engineering, Terry McConnell, wanted to ensure he had the best air filter solution for his facility. This was pre-COVID and in retrospect proved to be a very wise course of action.

Camfil Nashville's Branch Manager, Adam Wiggins responded with a proposal to carefully survey the facility and tap into Camfil's technical expertise to determine the optimal solution. The survey revealed many of the air handling units were two-stage systems with a low efficiency pleat as a prefilter and MERV* 13 box style rigid as the final filter.

While this is a popular solution, it represents older technology. The solution that the Camfil branch in Nashville and Adam Wiggins suggested was switching to Camfil's Hi-Flo ES[®] MERV 13A pocket filters.

AN AWARD-WINNING AIR FILTER

Camfil's award winning Hi-Flo ES pocket filter was specifically engineered to operate by itself without a prefilter. The larger surface area of a pocket filter with no prefilter significantly lowers system pressure drop

and results in less energy use. Previously, the pleated prefilters were changed several times per year based around events and the rigid box filters were changed annually. However, the Camfil Hi-Flo ES comes with a one-year service-life guarantee and since it is a single filter solution it lessens the time it takes to change filters.

MAINTAINED CAPTURE EFFICIENCY

The MERV 13 particle capture efficiency is maintained throughout the service life of the filter. This is critical for protecting against COVID or other infectious diseases. A filter not tested to MERV 13A could lose efficiency while in-service and allow particles to pass through the filter and into the spaces occupied by guests in the facility.

1,036 Hi-Flo ES MERV 13A pocket filters out of a total of 1,048 remained in-service for the entire three-year length of the contract. Only 12 filters needed replacing. By making this change, the shows, exhibitions and events at Music City Center could continue in a much healthier indoor air environment. The best part of the show – dramatically lower annual cost for maintenance and energy.

There is no 1-to-1 translation. The Hi-Flo ES MERV 13A is according American product sheet ISO ePM1 65% (Technical-documentation-Hi-Flo-ES.pdf (camfil.com) . A MERV 13 (without A) is normally an ISO ePM2.5 filter.



Air Pollution Control

Almost all industrial manufacturing processes generate harmful dust, fume and mist that have to be handled carefully to minimise health and safety risks for operators and for reduced environmental impact. Camfil Air Pollution Control (APC) develops and produces dust, fume and mist collectors for industrial exhaust-air cleaning. These extraction systems are used across a wide range of applications and industries, including metalworking, food and beverage, life science (pharma) and e-Mobility.

Protecting people and processes by collecting harmful dust, fume and mist

For decades, Camfil APC customers around the globe have relied on our dry dust and fume collectors, wet scrubbers, mist separators and filter elements to provide a safe and sustainable work environment. Camfil APC helps our customers go green by improving indoor air quality, helping them comply with safety and environmental regulations, and preventing high levels of pollutants from being exhausted to the outdoor environment. Our systems are based on the latest filter technologies, combined with the highest cleaning efficiencies, long operation and low energy cost.

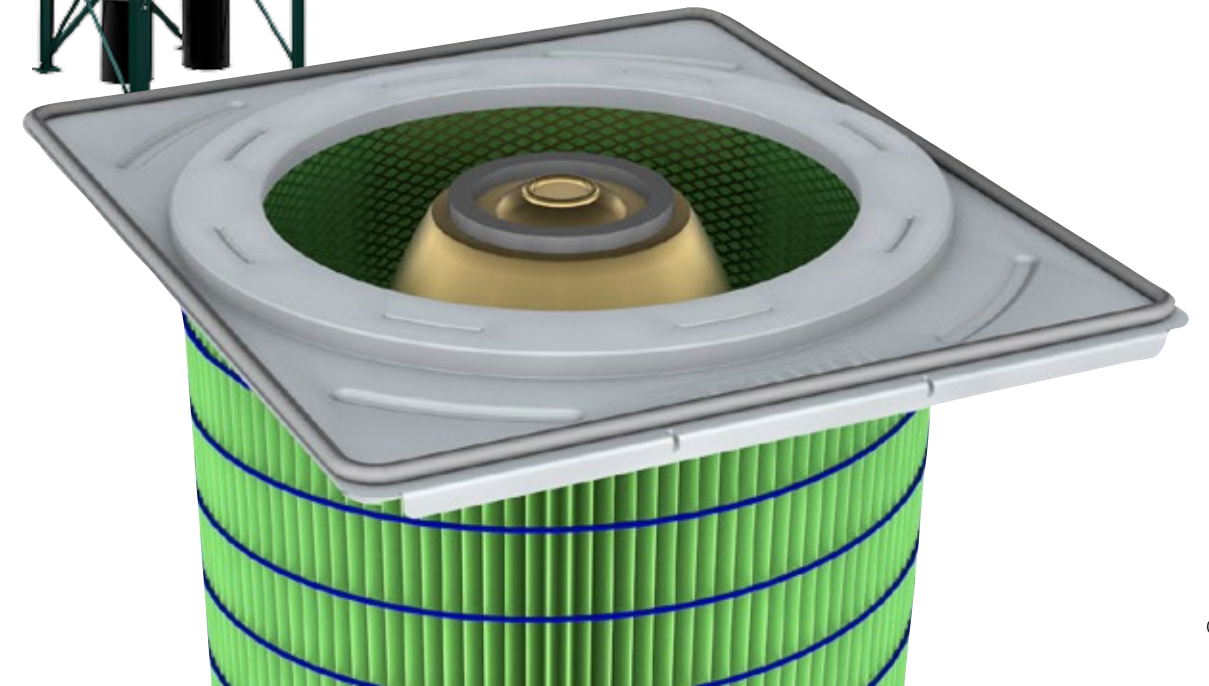
We assist our customers to extract process exhaust air from numerous applications to separate the emissions and return the cleaned air into the production. This leads to reduced energy costs.

Camfil offers a wide range of high-quality filter elements available to retrofit the most common dust collectors on the market.



ADDITIONAL SUSTAINABILITY-RELATED BENEFITS:

- Helping to prevent health problems caused by dust, fume and mist particles
- Ensure safe handling of combustible and explosive dusts with the right explosion protection and fire extinguishing equipment
- Preventing safety risks such as visibility problems caused by so-called nuisance dusts and mist in the workspace
- Reducing worker discomfort from allergens found in processes and protecting valuable equipment from contamination
- Enabling companies to comply with local and national air-quality requirements both inside and outside the factory



Camfil's Gold Series X-Flo industrial dust collector is a best-in-class dust collection system that manages all kinds of combustible dusts and fumes, including fine, fibrous and heavy dust loads. It processes dust with maximum air flow and dust processing power while delivering energy efficiency during use. The air that comes out of a Gold Series collector has been tested and proven to exceed the air quality required in most hospital rooms.

The Gold Series uses our patented Gold Cone™ filter cartridge to deliver clean air and long service life while using the smallest floor space of any dust collector currently available. It allows facilities to reduce the number of filters they need to use and replace. The innovative cone shape of the media expands the usable area of the filter, enabling a reduction in the number of filters by at least one-third.



CASE
STUDY

SUSTAINABLE DEVELOPMENT GOALS

Containment of welding dust at container factory

Camfil has provided container manufacturer AMG with a much more effective dust and fume extraction system offering higher filtration rates. A system that is also more sustainable thanks to reduced energy consumption and longer filter lifetime.

To increase their capacity to handle a growing production demand in Poland, AMG moved their waste container manufacturing to a new facility. They soon discovered that the air quality in the new facility did not meet local regulations or the Permissible Exposure Limit (PEL) for operators regarding exposure to dust, fumes and gases. They also required dust collectors with better performance.

AMG performs welding on large-scale applications where it is not possible to capture emissions by using extraction hoods or arms.

The welding dust in AMG's operations is fine and flammable with high loads – in some areas of the facility it was above 10 milligram per cubic meter air. The dust also contains anti-splatter fluid.

To be able to present an optimum solution, Camfil carried out a thorough examination of the conditions in the new facility.

This included measuring emission levels to locate the most affected areas in the production. A dust analysis was performed in Camfil's laboratory to make sure the right filter media was recommended and that the correct filtration rate of the system was calculated.

The proposed Camfil solution was a Gold Series X-Flo dust collection system with five identical GSX16 dust collectors, installed separately outdoors for simplified service and maintenance.

Additional requirements were that Camfil would be able to install the new dust collectors in just eight hours, during the night shift. And AMG wanted to be able to control their five separate dust collectors from one control cabinet.

Thanks to Camfil's Gold Series X-Flo solution, AMG now has a much more effective dust and fume extraction system. A system that is also more sustainable due to reduced energy consumption and longer filter lifetime.

BENEFITS TO CUSTOMER:

- Improved indoor air quality and clean production facility to meet occupational health and safety requirements
- Long filter life of the Gold Cone X-Flo filter cartridges leads to high plant availability
- Around 70% of the cleaned air is recirculated and used as additional heating for the production, which leads to significant energy and cost savings.
- The control unit allows to adjust the air volume and fan units to the different requirements of each shift what reduces the overall energy consumption of the system at around 30%

Eliminated downtime and minimised heating costs for Dyna Mig

Dyna Mig had a competitor dust collector solution that regularly caused costly downtime. With the help of Camfil's expertise and a flagship Camfil Gold Series GSX dust collector system, Dyna Mig was able to eliminate all unscheduled downtime and cut their heating costs to a minimum – as well as work safer.

Dyna Mig is a world-class component manufacturer specialising in Robotic Mig and Spot Welding of parts for North American automotive Original Equipment Manufacturers (OEMs). They are located in the Canadian town of Stratford about 150 km (93 miles) west of Toronto.

The competitor dust collector system was constantly causing Dyna Mig unscheduled downtime. Primarily because they had to shut down the collectors to pulse clean the filters in order for the system to function as intended. Another major downtime issue was premature component failure.

CHALLENGING WINTER CLIMATE

Some of the components were contained inside the old collectors. This posed a real challenge since the collectors were located outside. The winter in the area lasts from late November to mid-March with an average winter temperature of about minus 4°C (24°F). A priority for Dyna Mig was to minimise having to regularly go out in the cold to exchange failed components.

All these downtime issues were not sustainable, especially since Dyna Mig's products are in constant high demand. They run a 24/7 production schedule so they can deliver welded parts at the pace their OEM clients expect.

When Dyna Mig began looking for someone to help solve their downtime problems, KRR, one of their long-time mechanical contractors, suggested reaching out to Camfil.

Camfil was invited to a meeting with Dyna Mig's management and other plant personnel, where they used the Camfil Demo Trailer to demonstrate the capabilities and advantages of the Gold Series dust collector system. The representatives from Dyna Mig were impressed, particularly with the system's unique air flow design, clearly illustrated by the Demo Trailer. A much appreciated feature was also the option of having the control panels mounted outside the collector for easy access and maintenance.



THREE MAIN CAMFIL ADVANTAGES:

Dyna Mig said three main advantages set Camfil apart from the competition.

- Camfil had a team of experts with years of experience equipping robotic weld systems.
- Camfil guaranteed the collectors could pulse down “online” when the fans were running, giving Dyna Mig a 24/7 window to produce parts without shutting down the fans to pulse.
- Camfil offered a Variable Frequency Drive (VFD) that would maintain a constant airflow and not fluctuate up and down as the robotic welders started and stopped.

SAFER WORKING CONDITIONS

The constant airflow made possible by the Variable Frequency Drive allows the spark arrestors, spark detectors and extinguishing systems to function as designed. This greatly reduces, if not eliminates, the risk of live sparks making their way to the dust collector.

ADDITIONAL VALUABLE FEATURES

Dyna Mig appreciated that the Camfil collectors were much quieter than their old dust collectors. In fact, when they came out to see their new Gold Series GSX108 run after the installation, they asked if the collectors were turned on because of how quiet they were.

Another highly valued Camfil advantage was the integrated Safety Monitoring Filter (iSMF) for the return air and supply self-dumping hoppers, which is a more convenient solution compared to the hard-to-reach dust barrels on the old collectors. Furthermore, Dyna Mig was able to customise their input/output (I/O) for the features they wanted and had the option of choosing a custom colour on the new dust collectors to match their plant’s exterior.

MINIMISED HEATING COSTS

Thanks to having a proper weld fume ventilation system, Dyna Mig is now able to recycle the process air back into their facility, keeping heating costs to a minimum during heating season.

Since the installation of the Gold Series GSX108, Dyna Mig has experienced no unscheduled downtime, no traces of dust fallout, and after one year, the cartridge pressure was still under 3.0" sp. Dyna Mig was so impressed with Camfil and the GSX108 that they ordered a GSX144 (4-GSX36) for four new robotic welding cells.





Power Systems

Gas turbines are highly sensitive and need good air quality to deliver reliable output. Since the input of a gas turbine is 98% air, it must be protected via a correctly designed air inlet system to maintain efficiency, reliability and availability.

Camfil Power Systems (PS) is a data-driven organisation that offers a full range of filtration and acoustical solutions and services helping turbomachinery maintain their peak performance. We develop intelligent air solutions for maximum predictability and minimum complexity, which has led to the revolutionary PowerEye predictive analytics service for air intake filters and gas turbines. This service enables optimised performance of assets, from predicting future power output to optimising maintenance practices.

Gas turbines have a key role in the energy process and in accelerating the global reduction in emissions. Power Systems strives to enable a sustainable energy future by engineering new filtration technologies, with sustainable manufacturing processes, designed to reduce our customers' carbon footprint.

Localisation

Power Systems has focused on the localisation of its filtration products, to serve customers better. In addition to improving the supply chain process, this strategy reduces our carbon footprint as we are shipping less air filters around the world.

Power Systems new generation CamClose

NEW GENERATION – MORE SUSTAINABLE – CAMCLOSE PANEL PREFILTERS FOR TURBOMACHINERY

Camfil's new generation CamClose panel prefilters – designed to extend the service life of gas turbine final filters – offer a number of features and strengths that make them more sustainable.

In addition, the CamClose offers a user-friendly design, robust construction, and best-in-class water handling properties. These features make it an excellent prefilter for most turbomachinery and gas turbine applications. It is especially suitable for humid conditions such as tropical and coastal installations.

NEW PREMIUM FEATURES:

- Patented built-in pressure drop port helps to accurately monitor filter pressure drop across each filter stage separately, enabling the operator to better plan for filter replacement.
- Strong built-in plastic clips allow for an easy close-coupling to the final filter, without any additional hardware.
- High burst strength > 6250 Pa (25" w.g.) and robust frame maintains filter integrity in challenging environments.
- Optimal and proper sealing gives best-in-class water and contaminant handling, as well as a low and stable pressure drop.
- Advanced media offers low pressure drop, long life and good water handling.
- Non-charged, high mechanical efficiency ensures gas turbine filters maintain their efficiency class in high velocity applications.
- The new generation includes three efficiency classes that have been tested to the latest industry standards per ISO 29461-1:2021:
 1. T2
 2. T5
 3. T6



ADDITIONAL FEATURES THAT CONTRIBUTE TO SUSTAINABILITY ARE

- Low initial pressure drop and high dust holding capacity, meaning fewer changeouts.
- Next generation filters with optimised design reduces material usage, while increasing filter strength.
- Increased recycled content reduces carbon footprint.
- Stable performance in wet conditions lead to higher power output and lower fuel consumption.
- High mechanical efficiency of this prefilter protects the final filter better, prolonging its life.

All of these features lead to reduced fouling and lower heat rate, thereby also reducing CO2 intensity.

Significant fuel and CO₂ savings at the Alto Garda power plant

Camfil© Retrofit solution helped Alto Garda Power save 650,000 cubic meters of fuel and lower annual CO₂ emissions by 1100 tonnes, prolonging filter life by 200%.

THE FUEL SAVINGS WERE ACHIEVED BY PRESSURE DROP SAVINGS AND FOULING REDUCTION.

Alto Garda Power is located at the north end of lake Garda in northern Italy. They manage a power plant with high availability requirements (7,900 hours/year) and supply electricity and steam to paper mills, as well as heating for the town of Riva del Garda, including offices, schools, kindergartens, etc.

In an effort to increase the performance of the 44 MW gas turbines, Camfil Power Systems was asked to optimise the existing filtration system. The aim was to decrease the total filtration system pressure drop (dP) to achieve the following:

- More power output for the same fuel consumption
- Extended filter lifetime, and less time and effort required for filter replacement
- Increased engine protection and availability

WITH A RISK OF RAIN AND FOG

The area where the power plant is located offers coastal to land-based conditions, where air quality can be challenging. Relative humidity is moderate to high with an average of 73%, as well as significant precipitation and fog/mist.

The original installation had a 2-stage system consisting of G4 efficiency pleated prefilters and F9 efficiency final filters – with these drawbacks:

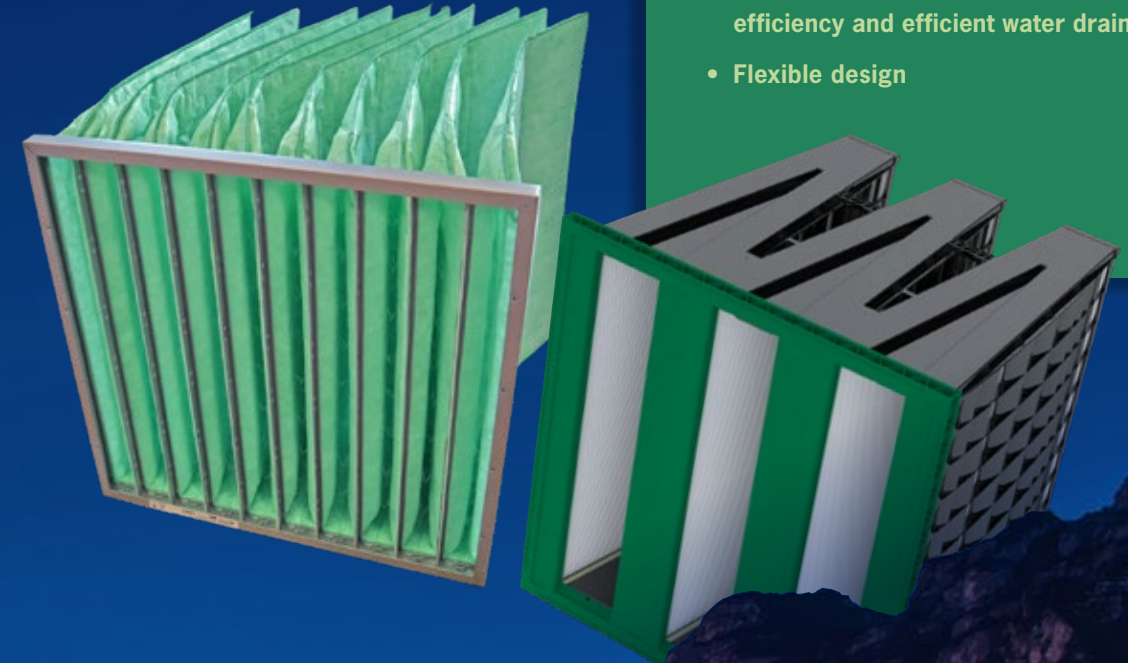
- High dP spikes, especially in high humidity, rainy or foggy conditions, resulting in:
 - Prefilters had to be replaced every 4 months,
 - Final filters had to be replaced every year
- Low filtration efficiency and no drainage capabilities, causing engine degradation
- Existing system design limited the choice of replacement products

A SIGNIFICANT UPGRADE

Camfil conducted several site surveys to recommend the optimal air filter solution to enhance the performance of the engines. A fundamental prerequisite was to achieve the shortest possible installation time during scheduled maintenance.

Based on environmental and operational conditions, the existing system was upgraded to a 2-stage static filter solution. It consists of two airtight filter banks holding the Cam-Flo Hybrid T7 pocket air filters and the CamGT 3V-600 T10 final EPA air filters.

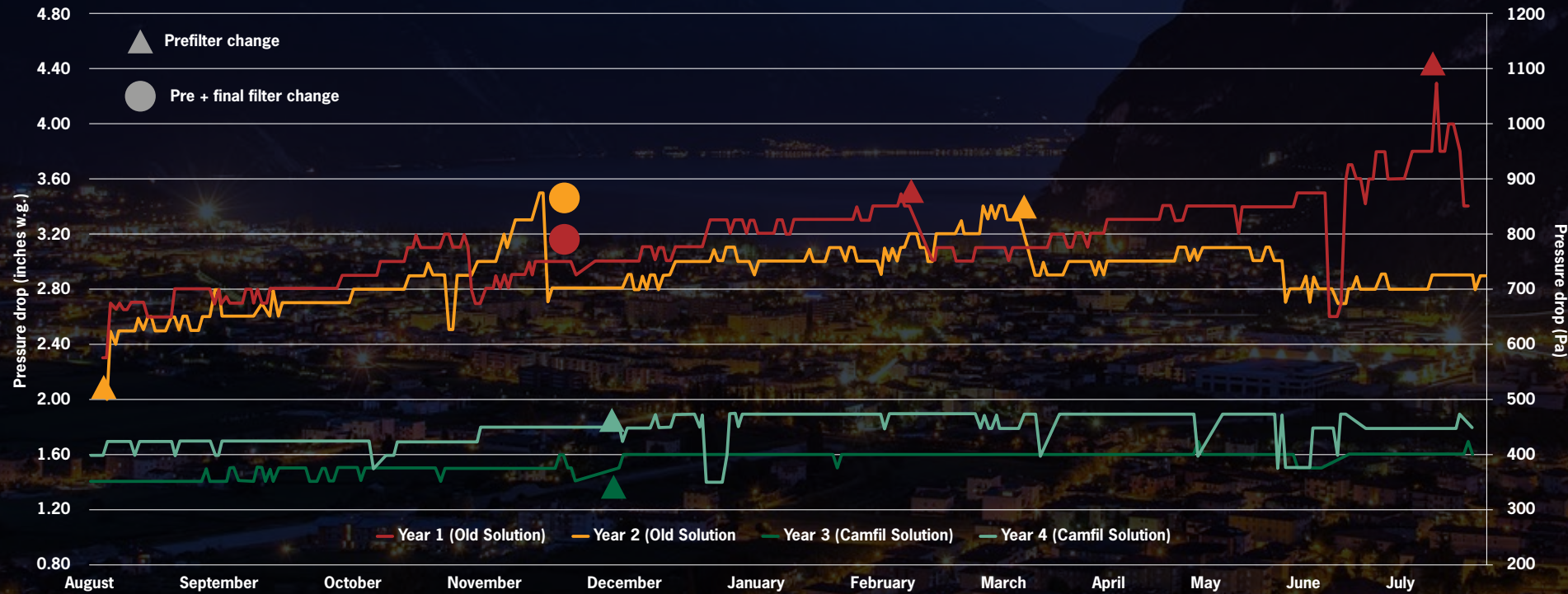
After two years, the Camfil solution continued to maintain a low and stable pressure drop. As a result, Alto Garda did not experience any unwanted outages for filter replacement.



SYSTEM ADVANTAGES:

- Low and stable dP, even under wet and humid conditions
- Greater engine protection due to EPA efficiency and efficient water drainage
- Flexible design

PRE-FILTER + ANTI-ICING + FINAL FILTER PRESSURE DROP



KEY SAVINGS:

- Reduction in CO₂ emissions by 1 100 tonnes per year
- Fuel consumption savings of 650 000 cubic meters
- Pressure drop reduction by 48%
- Prefilter lifetime > 1 year
- Final filter class lifetime > 3 years
- Decreased engine degradation extends component life

A woman with dark hair, wearing a white lab coat and a black face mask, is looking to her right. She is standing in a room with a light blue wall and several framed pictures or paintings hanging on it. The background is slightly blurred.

Molecular Contamination Control

Molecular Contamination Control (MCC) products remove molecules, gases and vapours from the air that cannot be captured using ordinary particle filters. Molecules are typically 100 to 1,000 times smaller than the most penetrating particles that pass through HEPA and ULPA filters.

Chemicals present in gas form in the atmosphere, outdoors or in buildings, include polyaromatic hydrocarbons, volatile organic compounds (VOC), benzene, hydrogen sulphide isocyanates and siloxanes, to name just a few. They all require molecular filtration to protect people, processes or machinery, or simply to remove odours. Many of these chemicals are airborne and can mix to form a dangerous cocktail with unknown health impacts.

Keeping indoor and outdoor environments free of harmful molecules, gases and vapours

When producing molecular filters, a large quantity of dust and liquid wastes are generated. These wastes are difficult to dispose due to their chemical contents.

Through investments and change of process methodologies, we reduced our solid waste within Molecular Contamination Control (MCC) by approximately 40% and liquid waste by 50% in 2021 compared to 2020.

Camfil's molecular filters work through adsorption, in which molecules stick to materials with extremely high surface areas.

CamPure is part of our range of loose adsorption filter media. The media is produced by combining powders and chemicals to form beads of useful dimensions larger than a couple of millimeters.

INDOOR AIR QUALITY:
Protect people staying inside buildings like airports, offices, hospitals or laboratories.

EXHAUST:
Protect people and the environment from odours and toxins emitted in exhaust air streams from industrial or power generation facilities.

MICROELECTRONICS:
Enhance yield in semiconductor wafer manufacturing, flat panel displays, hard disk drives and equipment. Protect processes from outdoor and process chemicals present at trace levels in the air.

CORROSION CONTROL:
Protect sensitive electrical process control systems from acidic gases in petrochemical, pulp and paper, metal refining, printed circuit board manufacturing, data centres and wastewater treatment facilities. Corrosion control is also important for protecting artefacts in museums and storage facilities.

People living close to Middelfart Wastewater no longer have to hold their noses

The odour from Middelfart Wastewater treatment plant was not sustainable for the inhabitants around the facility. A unique high-tech molecular filtration solution from Camfil solved the problem.

The towns Middelfart and Strib are located in the middle of Denmark, and together they have around 20,000 inhabitants.

Middelfart Wastewater Treatment Plant is located halfway between the two towns. The plant handles transport and treatment of wastewater from the towns' households and industries. In recent years, both towns have grown, resulting in more people living closer to the treatment plant. The plant's new neighbours soon realised that they did not appreciate the unpleasant smells that came from the treatment of the wastewater.

TRIED TO SOLVE IT THEMSELVES

Middelfart Wastewater first tried to eliminate this odour nuisance by covering some of their process tanks and by installing new carbon filters. However, the results from these efforts were not convincing and the solution itself was inflexible and unmanageable. In addition, the carbon filters had to be emptied using a sewer cleaning truck, which was an extra recurring expense.

Since they could not solve this problem on their own, Middelfart Wastewater began thoroughly researching the market to find a working filtration solution. They contacted Camfil, specifying that they were looking for a solution that was efficient, flexible and maintenance-friendly.

Camfil and Middelfart Wastewater then worked together to specify all the details and demands of the project.



"Camfil was quick with response and follow-up. Since the odour problem was at a relatively unmanageable size, it was important that the system is flexible so that it can be updated as needed. Thanks to a very honest and credible dialogue, there was a good start that led to a strong collaboration", says Casper Strecke Skovgaard, Project Manager at Middelfart Wastewater.





A UNIQUE AND FLEXIBLE SOLUTION

The solution proposed by the Camfil team in Denmark was a space-saving return installation – an HDC carbon filter housing with activated carbon in a specially selected media mixture. A solution that had an excellent ability to take care of the odour problems.







What was unique about Camfil's solution was the use of standard size refillable media cells. A high-tech approach, eliminating all internal leaks that otherwise would reduce efficiency. The HDC housings offer easy installation and operation – new media can be installed in the cells without special tools or knowledge. The housing is also extremely flexible, since modules can easily be added when required.

Middelfart Wastewater initially ordered a HDC filter housing made of 316 steel, including a prefilter section with ePM1 55% panel filters and fans for the covered sludge storage tank. Since the results of the odour nuisance removal were satisfactory and the filters lived up to expectations, Middelfart Wastewater also ordered a similar HDC unit for the concentration tank. Additional units for the press building and the digester were ordered – which have two types of activated carbon for optimal odour removal.

Our sustainability targets and KPIs

SUSTAINABILITY AREA	GOAL	TARGET 2022	RESULTS 2020	RESULTS 2021	STATUS	UN SDG	RISK	GOVERNANCE
SUSTAINABLE PRODUCTS AND INNOVATION	Reduced energy consumption for Camfil's customers.	5% increase in filters with Eurovent classification A or A+ per year.	20% increase	7% increase	Energy consumption remains a key competitive factor.		Increased energy consumption by the end user, resulting in increased CO ₂ emissions.	The products are certified by Eurovent. Educate and inform the sales community and end users about lifecycle cost tools.
SUSTAINABLE PRODUCTION	Reduced energy consumption, increased utilisation rate of raw materials and reduced production waste.	2% reduced in energy consumption relative to production volume.	7% decrease	5% decrease	The metric for 2021 was affected by higher production costs.		Increased CO ₂ emissions, unnecessary consumption of natural resources and an increased cost for the Group.	Camfil's global production scorecard is used to report and analyse key performance indicators in these areas on a monthly basis.
		ONE factory per year where the Group's software for measuring recycling rates is put into operation.	FOUR factories	FIVE factories	Standardised reports were implemented in the factories where the ERP system was replaced in 2021.			
		1% reduction in production waste relative to production volume.	3% increase	1% increase	Depending on product and customer mix.			
HUMAN RIGHTS	Be an employer that supports equal opportunities.	100% of Camfil's large production units (23) will be GEEIS certified by the end of 2023.	48% 11 units	70% 14 units	Ongoing training and certification. The scope was expanded by 7 units to 23.		More difficult to find and retain staff.	Owner's directive and a global policy on diversity and equal opportunities. Locally implemented and available in 15 languages.
WORK	A safe and healthy workplace.	2.5% Sick leave 2.5 OSHA ratio 50 accidents/incidents	3.4% Sick leave 3.7 OSHA rate 89 accidents /incidents	3.4% Sick leave 3.7 OSHA ratio 100 accidents /incidents	Increased sick leave due to COVID-19 etc. Corrected for this, the result is on par with 2019.		Increased risk of workplace-related illnesses or workplace accidents. In the long run, the Group's reputation as an employer.	The Global Health and Safety Handbook is implemented locally and is available in several languages. Camfil's global production scorecard measures the monthly number of OSHA incidents.

Our sustainability targets and KPIs

SUSTAINABILITY AREA	GOAL	TARGET 2022	RESULTS 2020	RESULTS 2021	STATUS	UN SDG	RISK	GOVERNANCE
ANTI-CORRUPTION	Zero tolerance for bribery and corruption.	100% of all senior managers from finance, sales, logistics, and compliance managers for international trade will participate in annual training on sanctions and trade barriers.	95% participated	87% participated	Not achieved, ongoing training efforts.		Risk of damage to brand image and significant financial consequences.	Ownership directive, compliance policy for trade regulations, code of conduct. Third-party whistleblowing function to ensure anonymity, available in 15 languages.
AN ETHICAL CORPORATE CULTURE	High level of ethics and business conduct.	100% of new hires should participate in online code of conduct training.	Not reported	60% participated	Not achieved, ongoing training efforts.	 	Risk to image and reputation. Impact on the brand, more difficult to recruit and retain staff.	The code of conduct describes our shared corporate culture and clarifies how goals and values affect everyday actions.
SUSTAINABLE TRANSPORT	Reduce the climate impact of transport; environmental requirements are included in all requests for quotations, code of conduct signed by all freight forwarders.	Evaluate packaging solutions for bag and panel filters in a factory to reduce freight volume by 15%.	Not reported	Emission reduction of 130 tonnes CO₂	Continued work on reducing climate impact from transport through review of freight volumes and shipping methods.	  	Increased CO ₂ emissions, unnecessary consumption of natural resources and an increased cost for the Group.	Procurement requirements for freight forwarders and code of conduct for partner companies.
		Conduct 3 group-wide procurement procedures including environmental requirements.	Not reported	Included in requests for quotations				
		Collect emissions reports from all group-wide freight forwarders in Europe.	Not reported	Group-wide freight forwarders have signed code of conduct				
IT SECURITY AND DATA PROTECTION	Increased awareness of cybersecurity.	90% participation of active users in the IT security training programme.	86% participated	90% participated	Target for the year achieved.		Untrained staff can result in data breaches, business interruptions and increased costs for the Group.	Information security policies and guidelines.

A wide-angle landscape photograph showing a dirt road that curves through a vast, rolling green field. The sky is bright blue with scattered white and grey clouds. The word "ENVIRONMENT" is overlaid in large, white, sans-serif capital letters across the center of the image. In the bottom left corner, there is a dark silhouette of a plant with several leaves.

ENVIRONMENT

Responsible Consumption and Production

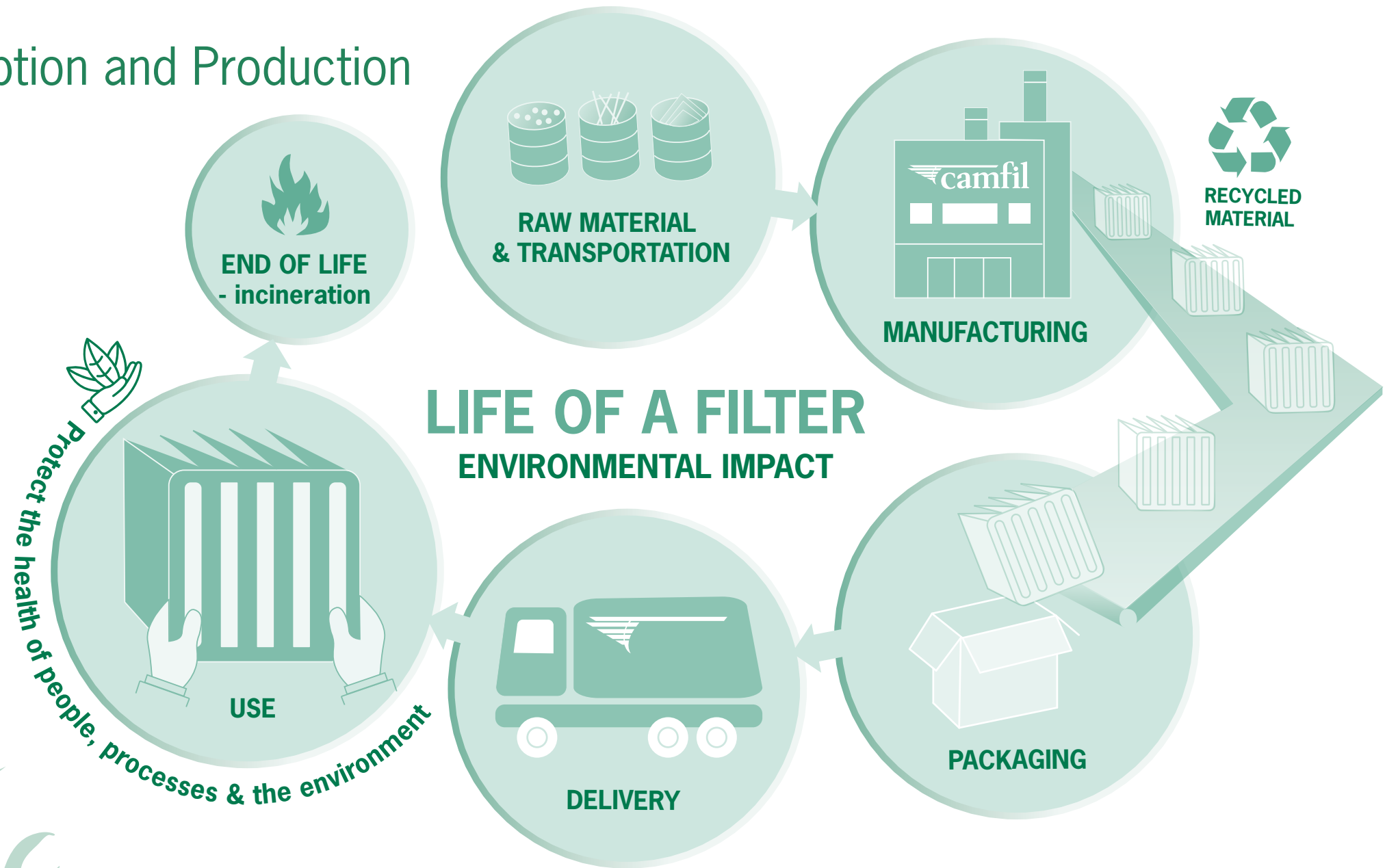


SDG 12 calls for actions to improve resource efficiency, reduce waste and mainstream sustainability practices.

One of its sub-targets is to ensure that people everywhere have

the relevant information and awareness for sustainable development and lifestyles. As with most manufacturing companies, Camfil's own operations generate emissions that have negative impacts in relation to SDG 12.

Camfil is committed to reducing such impacts. Each year, we have been improving on production and consumption impacts through our management systems, sustainability targets, green initiatives and Best Available Technologies. We educate consumers about energy efficiency and provide information by clearly displaying Eurovent's energy efficiency label on the product packaging of our comfort filters. We also offer filter schools, testing labs and learning experiences at various Camfil academies and universities worldwide to raise awareness of air quality issues.



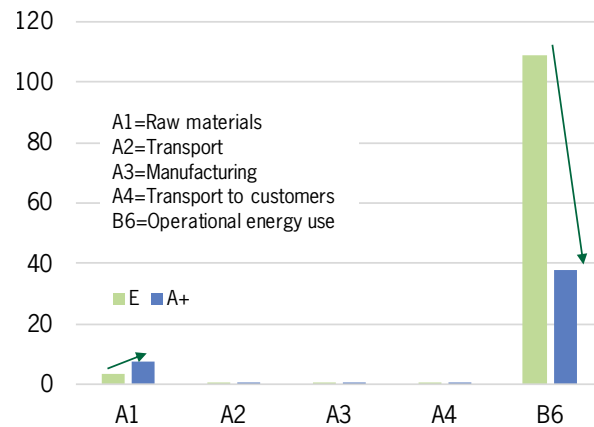
Minimising energy use for our customers

As demands to reduce CO₂ emissions get tougher, energy prices increase, and people are more aware of the effects of bad air on their health, the energy consumption of air filters in ventilation systems has drawn much attention. According to LCA, the use phase is most important for filters environmental impact. If you change one Hi-Flo ePM1-filter with energy class E to one with energy class A+, you will decrease the total kg CO₂ equivalent emission with 60%

This is why everyone will use filters with better energy rate and also the reason why this goal is so important to us.

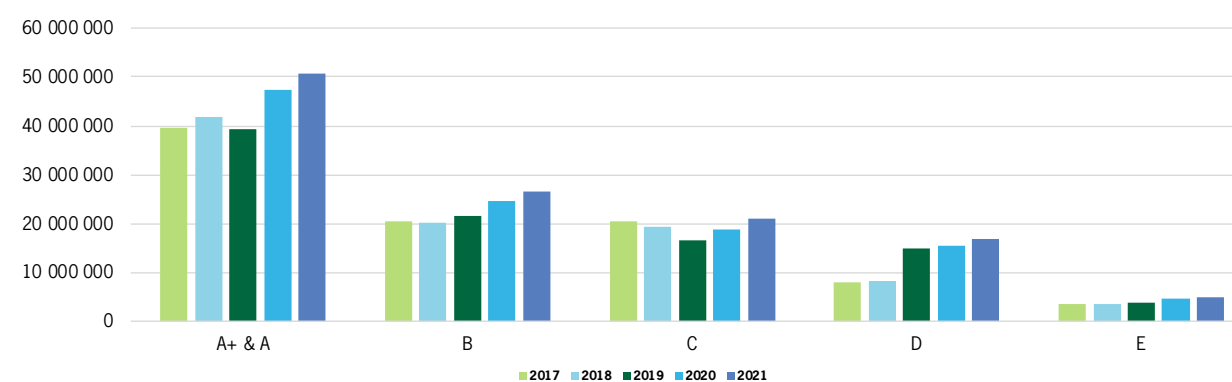
Today, all ePM1, ePM2,5 and ePM10 air filters in full size and family sizes can be graded from A+ to E. Grade A+ indicates the lowest energy consumption and E the highest. The classification, based on EN ISO 16890, gives people a better understanding of a filter's annual energy consumption, initial efficiency and minimum efficiency.

LCA - HI-FLO XL

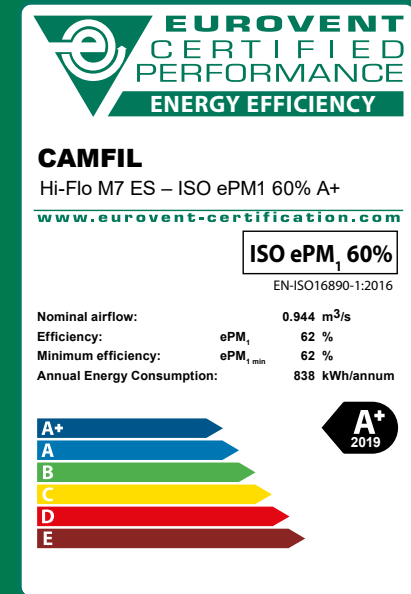


Comparison of CO₂ equivalent emission between two filters with different energy classifications.

SALES PER EUROVENT ENERGY CLASSIFICATION EUR



These numbers relates to the countries that are included in Eurovent only, not all countries where Camfil has a business offices. Because Eurovent has changed the classification criteria for all energy rated filters, the numbers are not 100% comparable from 2018 to 2019.



EUROVENT'S UPDATED SYSTEM HELPS CONSUMERS FIND THE RIGHT AIR FILTER WITH THE LOWEST ENERGY USAGE COMBINED WITH THE HIGHEST INDOOR AIR QUALITY.

Using the right air filter not only helps our customers maintain healthy indoor air quality, but also helps to save energy and money. Camfil clearly displays the Eurovent ratings on its product packages. In the United States, Camfil's premium filters carry a 5-star rating.



At the forefront of developing sustainable air filtration solutions

The forefront of sustainability is endlessly changing and evolving. Today's sustainability solutions are much more complex than those yesterday. And they will be even more challenging tomorrow.

It is in our DNA to constantly improve as a company. We are continuously striving to refine and advance our offer. Our cornerstones have always been sustainability, energy efficiency, productivity and health. They are the foundation of the development of every new product here at Camfil.

And our main focus never changes – which is to stay at the forefront of our industry, where we can be the best at meeting our customers' need for efficient, reliable and sustainable air filtration products. One of our most important strengths as a global leader in clean air solutions is our six R&D centers. It is in these state-of-the-art facilities around the world that we do the testing and development of our products.

Our R&D teams have one core focus: Improving the filtration material to achieve a reliable filter product, with the highest possible filtration efficiency, lowest possible energy consumption and longest possible service life.

Typically, 80-90% of our products' environmental and global warming impact is generated in the use phase – when energy is used to push air through the filter. This affects our customers' CO₂ footprint as well as their energy consumption, which for many constitutes a significant expense in their operations. We are well aware of the impact every development decision, big or small, can have when it comes to the environmental footprint of a new product during their life cycle.



LCA Modeling for sustainable product life cycle

We use LCA modeling to look deep into a products' every relevant life cycle stage, these include: the product stage, the construction stage, the end of life stage and the resource recover stage. Depending on what product we are developing, we choose the stages that are applicable. The stages may not be fully known at the beginning of the development process. They will, however, become clearer as the design, manufacturing and laboratory data become defined or available.

PRODUCT STAGE			CONSTRUCTION PROCESS STAGE		USAGE STAGE							END OF LIFE STAGE				RESOURCE RECOVERY STAGE
Raw materials	Transport	Manufacturing	Transport	Construction installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	X	MND	MND	MND	MND	MND	MND	X	MND	MND	MND	MND	MND	MND

X = indicates declared molecules MND = indicates that a module is not declared

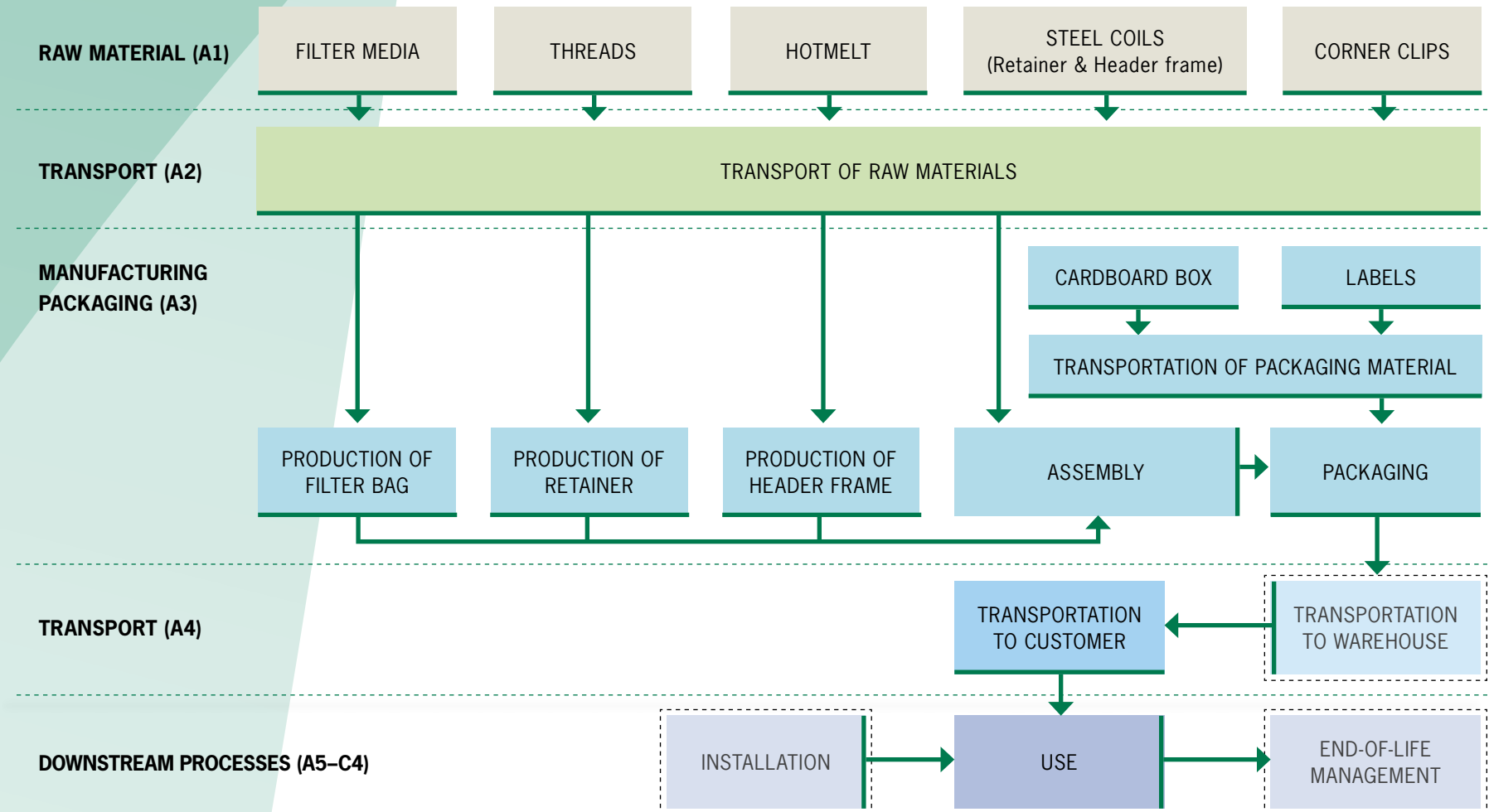
Description of system boundaries:

As the development progresses an evolving flow chart of all activities and stages of the process is created in order to assess where the products' environmental impact will be – in every part of their life cycle.

We use modern LCA modeling tools to help us analyse and see where the environmental impact will be most significant.

The purpose of the analysis is to make sure that our decisions and choices are optimised from a sustainability and environmental perspective.

For example if we are considering a more sustainable raw material then, we need to ensure we are considering a more sustainable raw material. Then, we need to ensure that the material does not have a negative impact on the transport phase or the use phase in a way that offsets the initial improvement of the product. The goal is always to achieve the lowest possible environmental impact for each product during their whole life cycle.



EPD – a tool for Environmental Product Declaration

In addition to working with LCA assessments, we also use Environmental Product Declarations, EPDs. The EPD standard makes it possible to compare the environmental performance of our products over their life cycles and calculate their environmental impact.

The EPDs indicate climate-affecting emissions, acidification, eutrophication*, impact on the ozone layer as well as resource depletion and energy, fuel and water consumption and waste. They are developed according to standards ISO 14025 and EN 15804.

The results of the LCA study and other mandatory information are compiled in an EPD report. The EPD then has to be reviewed by an accredited certification body or an individual approved verifier before it can be registered and published via the international EPD system.

*Eutrophication is when excessive levels of nitrogen and phosphorus in the water cause an overabundance of algae and plants which in turn cause depletion of fish and deterioration of water quality.

EDUCATED BY EXTERNAL EXPERTS

We have the tools to produce EPDs and LCAs in-house thanks to the independent Swedish Environmental Institute (IVL) having educated us in producing EPDs and conduct LCAs for key bag filters.

In the Nordic region, we have released EPDs for our bag filters, which is our largest product group. And we will continue to roll out more EPD declared products, primarily in our largest product segment Comfort filtration.

EPDs help our customers make sustainable purchasing choices. Our vision is that it should be just as easy to choose a sustainable Camfil product as it is to choose the right filter size or filter class.

INVESTING IN SUSTAINABLE DEVELOPMENT

Development of more efficient and sustainable product solutions is the driving force behind many initiatives at Camfil. Here are a few examples of ongoing activities:

1. We continuously invest in our R&D Capabilities. The most recent significant addition is almost doubling the floor space at the Tech Center in Trosa, Sweden, which is our largest development center. The much larger premises open up opportunities and space for new R&D capabilities. We will move into the new facility the first quarter of 2022.

2. One of the first additions to the expanded Tech Center will be more capacity and resources for raw material research. Our goal is to accelerate our development of even more energy efficient filter media. We will also develop new sustainable raw materials for core materials for frames and adhesives.

3. We have many ongoing product development projects. Primarily focused on energy efficiency, lifetime extension and CO₂ footprint optimisation. Projects that will result in product launches in all our major product segments. Many of these are late stage projects which means that exciting new sustainable products will come out in 2022.

4. Two new standards for filter classification (29461-1 & 10121-3) will help molecular customers and gas turbine filter customers to choose the right product. The standards offer increased transparency when comparing products. They help customers find the right sustainable solution for the right application in terms of functionality, life expectancy and energy consumption.

ENVIRONMENTAL
PRODUCT
DECLARATION

Helping to develop industry standards

Camfil actively participates on standards committees to ensure that a good balance is achieved between filtration efficiency and energy efficiency in general ventilation systems. Industry standards and governmental regulations preserve this balance and help drive the development of innovative solutions that simultaneously increase both these elements in order to safeguard people's health and conserve energy.

For most people, "air quality" is very abstract. It is difficult to accurately measure, and even harder to touch and feel. This makes it tricky for customers to choose the right product for their needs, and even more difficult to know whether the product is doing the job promised.

This is why industrial standards have become so important in the filtration industry. The standards make it possible to compare products in a fair way and judge if they fit the application. For particle filtration, such standards for this purpose have long been a given. It has become such an integrated part of the business that we sometimes forget how difficult life would be without a standardised test method and classification of the product. But for another product category – molecular filters – this has not been equally obvious.

MEASURING MOLECULAR-SIZE PARTICLES A CHALLENGE

For molecular filters, it was not until 2013 and 2014 that standardised ISO test methods became available, and still there is no classification system. But change is coming. A classification system for the specific use of general filtration of intake air for buildings is underway and could be available as early as 2022.

The reason for the former absence of a molecular standard lies in the difficulty of measurement. Simply put, whereas particle efficiency requires one test aerosol and one particle detector to calculate filtration performance, molecular filters require one gas source and one detector per contamination. The difficulties do not stop here. One gas in combination with another can affect overall performance, and environmental conditions like temperature and humidity strongly affect the test results.

WHY WE NEED MOLECULAR FILTRATION PRODUCTS

However, there is a strong need for molecular filtration products, even for the general filtration of buildings found in large cities or heavily polluted areas. The need for the upcoming classification ISO/CD 10121-3 (part 3) is based on gas removal from a comfort perspective (odours) and a health perspective (ozone, VOCs*, NOx*, etc.). Due to the complexity of molecular contamination, the need to easily compare product performance and quality is possibly even greater than for particle filters.



NEW STANDARD FOR MOLECULAR FILTERS WILL HELP CLEAR THE AIR

The previous parts of the standard, ISO 10121-1 and ISO 10121-2, provide a standardised test setup for testing of molecular media and of entire molecular filters. They make it possible to benchmark different products and compare between laboratories. This also opened up the opportunity for a classification of the products. However, applying these standards requires the ability to interpret the data and sometimes select test substances and concentrations. This might seem complex for customers of general ventilation air filters. The value of part 3 of the standard is that it selects all parameters except rated air flow, and it provides a classification system that helps customers choose the right product without being an expert and without understanding all the technical details around the test method.

Now the new molecular filter classification system ISO 10121-3 is underway and is, at the time of writing, in a draft version under review by ISO. If accepted, the standard can be ready for use as early as the first half of 2022.

*Nitric Oxide (NOx) is a chemical compound of oxygen and nitrogen which mainly forms when oil, diesel, gas and organic materials are combusted. NOx can cause serious health damage, including respiratory diseases. NOx is responsible for brown smog clouds over large cities, and contributes to acid rain and ground-level ozone that can damage ecosystems, animal and plant life.

*Volatile Organic Compounds (VOCs) are organic chemicals that are emitted as gases from certain solids or liquids. Examples of indoor products that emit VOCs are paints, glues, cleaning supplies and furnishings. VOC concentrations can be up to ten times higher indoors than outdoors, and they can have adverse health effects both in the long and short term.



Production Sustainability

REDUCING ENERGY CONSUMPTION

Waste and energy reduction measures are a key aspect of Camfil's strategic three-year plan. We continuously track our energy consumption. Because Camfil is growing, we decided to list comparisons of our production cost (cost of goods sold). This of course depends on raw material prices and product mix, but for Camfil as a group, we believe it gives a good enough indication of our work in this area.

INCREASING MATERIAL UTILISATION AND REDUCING WASTE

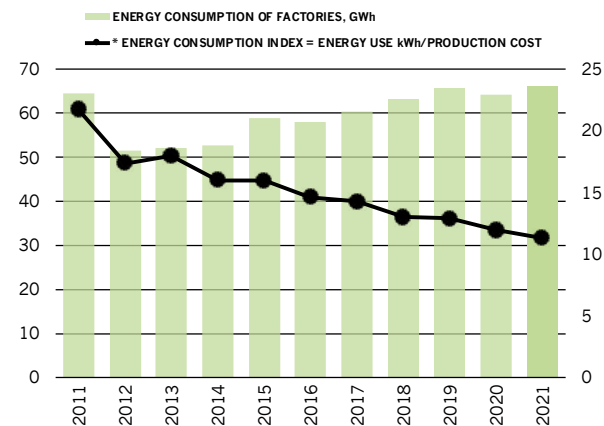
Waste reduction at the company is a key aspect of Camfil's strategic three-year plan.

The manufacture of filters is one of Camfil's biggest direct environmental impacts. Reducing waste from this process is therefore crucial. Producing filter media that is not used in the finished filter products amounts to the unnecessary use of natural resources, energy and transport. We began to measure material utilisation in Sweden several years ago and in conjunction with this we developed a production yield system.

We want to implement yield systems in our major production units so that we can capture measurement data that will allow us to identify and analyse where in the process the filter media scrap arises. We use our production yield system to plan and minimise set-up times that can lead to filter media scrap. Measurements allow us to sharpen our focus so that we can make improvements.

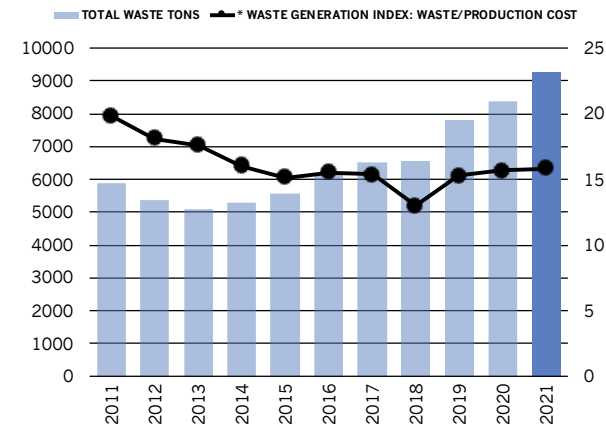
ENERGY USE

Goal: 2% improvement in ECI* annually

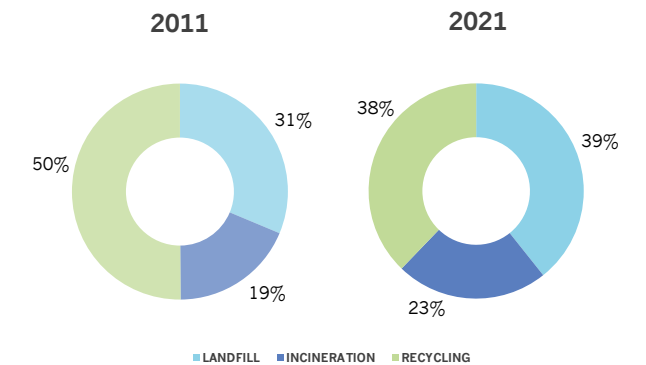


WASTE

Goal: 1% improvement in WGI* annually



WASTE DESTINATION



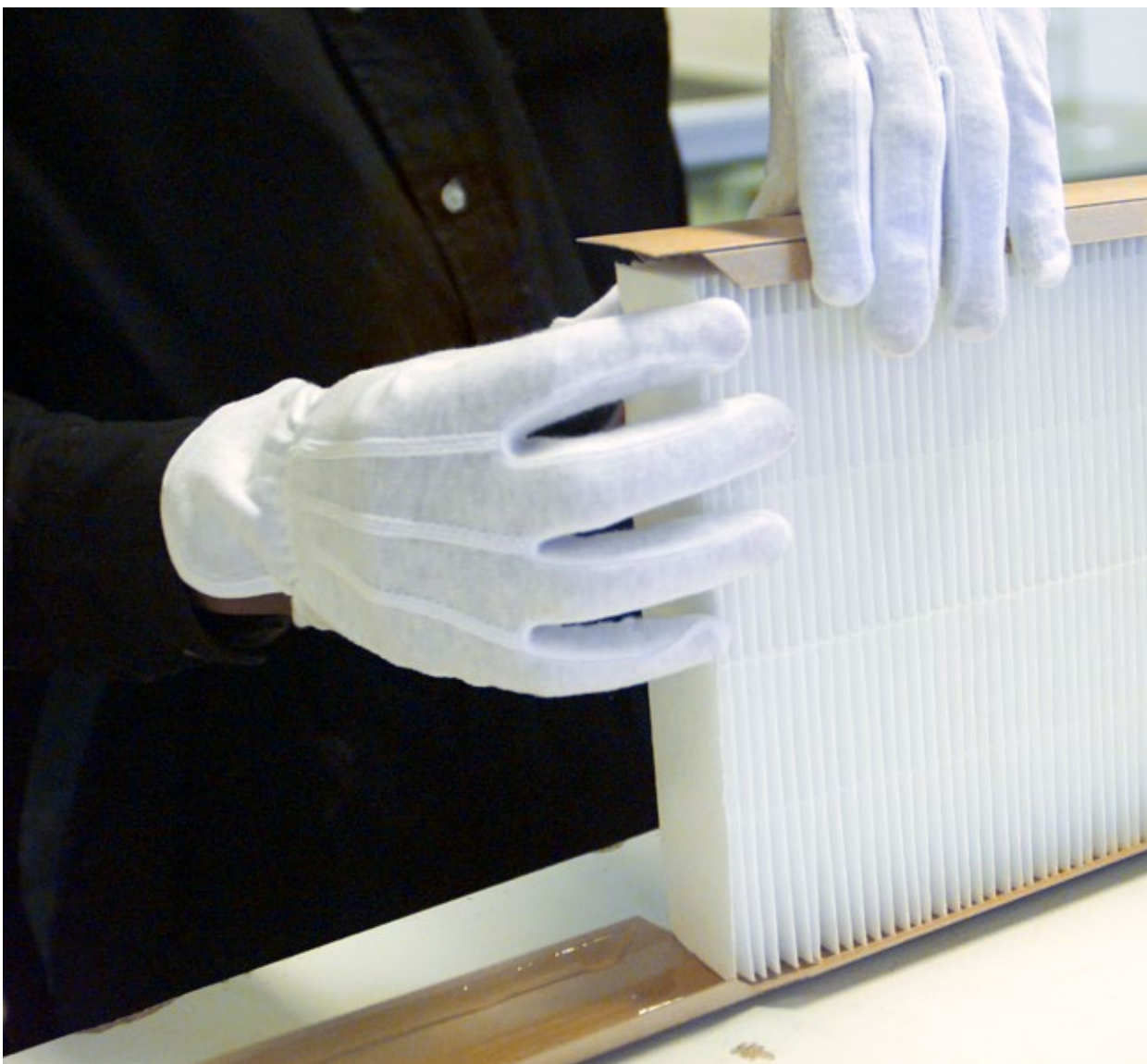
11 SUSTAINABLE CITIES AND COMMUNITIES



SDG 11 aims to reduce the adverse environmental impact of cities by 2030, including by paying special attention to air quality.

According to the World Health Organisation, more than 90% of the world's population live in places exceeding WHO air quality guidelines. Camfil's air filters and clean air solutions are some of the most energy-efficient on the market, and help purify the indoor air and create more sustainable buildings around the world where people live, study and work.

Also related to this SDG, Camfil engages employees in local sustainability and corporate social responsibility actions through a programme called CamfilCairing. This global, group-wide programme demonstrates how Camfil cares about the air we breathe and wider environmental issues. It integrates sustainability initiatives and good corporate citizenship into our business strategy. As part of the programme, each year Camfil companies host a Cairing Week during which we place a special focus on community outreach events and internal improvement measures related to our business of promoting health and well-being through clean air. From beach clean-ups to resource efficiency programmes to raising health awareness, our people engage, educate and inspire.



Striving for a chemically balanced operation

THE LESS CHEMICALS WE USE, THE BETTER IT IS FOR PEOPLE AND THE ENVIRONMENT

Chemicals have the potential to harm people and the environment. We have therefore set up strict internal rules and routines on how chemicals must be handled within our company. We are also very careful to follow applicable laws and regulations regarding chemicals in all countries where we have operations.

Our long-term goal is to reduce our use of chemicals. We strive to switch to chemicals that are less harmful to people and with less environmental impact when possible. As well as aspire to reduce both the number of and the amount of chemicals we use. We constantly work to improve our routines around purchasing and handling of new chemicals. This includes, among other things, making careful risk assessments before chemicals are allowed in our operations. And, we continuously train our employees in the handling of chemicals.

When deciding if we should use a specific chemical or not, we adhere to the internationally recognised precautionary principle – which states that if you are not certain if a chemical will harm people or the environment, then it is better to err on the side of caution and not use that particular chemical.

Some chemicals are included in our products and we utilise other chemicals to maintain our machines. The chemicals in our products must be registered with the proper chemicals' agency in each Camfil-country of operations respectively.

*A chemical product is a substance or a mixture of several substances. Examples of substances are acetone, ethanol and sodium chloride. Examples of mixtures are paint, glue and detergent.

ISO certifications in our DNA

The purpose of obtaining ISO certification is to ensure continual improvement of processes and procedures so that we can provide better products and services and, as a result, have more satisfied stakeholders. This is in our Camfil DNA.

The ISO standards support us in these efforts and now enables certification to multiple standards.

Today's ISO standards differ from what they were only a few years ago. They now enable certification to multiple standards. We can use simple language, images, illustrations and videos instead of a stockpile of written documents.

The current standards provide scope for developing one's corporate culture and values, something that represents one of Camfil's major strengths.

Some of our production units are as a minimum requirement at least ISO 9001:2015 certified. Several factories have additional ISO certifications like ISO 50001, 14001, 45001.

Camfil Australia qualifies for double ISO quality certifications

Camfil Australia had a great sustainability year in 2021. They obtained certifications for both ISO 9001 and ISO 14001. It was achieved through a wide range of sustainability efforts. They promoted safer and healthier work environments. They implemented many changes to reduce their environmental footprint. They stepped up their reuse and recycling efforts. And they applied many smart solutions to save energy and reduce their energy costs.

EFFORTS LEADING TO CAMFIL AUSTRALIA'S ISO 9001 CERTIFICATION IN 2021

Camfil Australia aligned and streamlined all business processes and procedures, thus allowing their team to work more productively. They created local policies and obtained employee acceptance and sign-off – this outlines the correct ways of working, sets standards of behaviour and expectations whilst articulating the company's objectives and values.

Combining Workplace Health Systems (WHS) easy-to-use reporting forms were created quick to capture injury/incident/near-miss reporting, daily forklift pre-start inspections, monthly workplace safety inspections, toolbox meetings, etc. Continuous improvements of processes, update of management systems, internal audit processes, corrective and preventative actions took place.

A reduction was seen in the number of Quality Concerns raised as these are being captured and addressed immediately, thus reducing the number of similar quality concerns.

EFFORTS LEADING TO CAMFIL AUSTRALIA'S ISO 14001:2013 ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATION IN 2021

Energy consumption at Camfil Australia Head Office was reduced by removing the office computer server and switching to a cloud-based solution. As a consequence, they could also turn off the split system that was absorbing heat and maintaining a constant temperature 24/7 in the room where the office computer server was located – a change that saves a lot of energy.

They put a waste paper recycling bin at every desk in all of Camfil Australia's offices. They installed e-waste recycling bins at every Camfil Australia-site. e-Waste bins are for recycling printers, computers, laptops, tablets, mobile phones, desktop monitors, network equipment, set-top boxes, lightbulbs, portable batteries, etc. The installment of e-waste recycling bins was supported by an educational poster campaign in all of Camfil Australia's canteens and warehouses. They now recycle all printer cartridges at all their facilities. They installed recycling skips for cardboard at all their facilities. Every Camfil Australia facility now has battery recycling.



12 RESPONSIBLE CONSUMPTION AND PRODUCTION



SDG 12 calls for actions to improve resource efficiency, reduce waste and mainstream sustainability practices.

One of its sub-targets is to ensure that people everywhere have the relevant information and awareness for sustainable development and lifestyles. As with most manufacturing companies, Camfil's own operations generate emissions that have negative impacts in relation to SDG 12.

Camfil is committed to reducing such impacts. Each year, we have been improving on production and consumption impacts through our management systems, sustainability targets, green initiatives and Best Available Technologies. We educate consumers about energy efficiency and provide information by clearly displaying Eurovent's energy efficiency label on the product packaging of our comfort filters. We also offer filter schools, testing labs and learning experiences at various Camfil academies and universities worldwide to raise awareness of air quality issues.

The Coronavirus-19 pandemic year two – vaccines and the importance of cleaning the indoor air

We saw many life-saving initiatives to combat and mitigate the COVID-19 pandemic in 2021. Most important was the introduction of several vaccines, developed in less than a year. A process that normally takes 5-10 years.

Efforts to clean the indoor air can also make a difference according to a recent study by University College Dublin and the Mater Hospital in Dublin. It showed that Camfil's City M air purifiers can remove aerosols from poorly ventilated rooms at four times the normal rate.

These findings are significant since WHO has declared that COVID-19 is transmitted mostly through the inhalation of airborne aerosols within close range.





1 million visitors breathed quality indoor air at the forest in Dubai

CAMFIL'S SUSTAINABILITY WAS SHOWCASED IN A GREAT MANNER DURING THE EXPO 2020 IN THE CITY OF DUBAI.

Camfil, an official sponsor of the Swedish pavilion at the Dubai world EXPO, is making sure visitors there can breathe clean air. In places like Dubai, the climate can pose a challenge and dust can lead to many health problems. We supplied our Dynavane filters, inertial sand separator, which can remove 95% coarse dust and 78% fine dust, panel filters, bag filters, and mobile air purifiers. We proudly reaffirmed our commitment to sustainability and innovation at the pavilion, which was built entirely in wood and alternative materials to reduce its carbon footprint.

Camfil Germany now uses 100 percent green electricity

Camfil Germany now uses 100 percent regional green electricity. This means that all Camfil's air filters and air purification systems in Germany are now produced entirely with local, renewable energy from sun, wind and hydropower.

By switching to 100% green electricity from regional supplier Stadtwerke Ratzeburg, Camfil Germany underscores Camfil's overall commitment to reduced CO₂ emissions, counteracting climate change and global warming. This is also in line with Camfil's long-standing membership of the United Nations Global Compact, and its ten principles promoting sustainability in companies.

"Every adjustment, no matter how small, makes a difference when it comes to acting responsibly. And with an immense power requirement of 3,4 million kWh at our Reinfeld location per year, the switch to green energy is really not just a small adjustment for improving our ecological balance," says Dirk Leinweber, Director Sales & Marketing at Camfil GmbH.

"Switching to green electricity means an additional cost of 6,000 Euro per year for Camfil Germany. But it is worth every cent. We cannot wait for politicians to stop climate change. For us to rely on TÜV Nord-certified, regional green electricity is therefore an important step to help improve the world's CO₂ balance."



CAMFIL IN REINFELD OFFSETS 146.57 TONNES CO₂ FROM TRANSPORTS.

Camfil in Reinfeld, Germany, has received a certificate for the offset of 146,57 tonnes CO₂ from greenhouse emissions emanating from their vehicle fleet in 2021. The certificate was awarded Camfil in Reinfeld via a collaboration with DKV fuel cards and the charity organisation myclimate.

The offset of 146,57 tonnes was a substantial increase from 2020 when Reinfeld's offset for transports was 61,02 tonnes CO₂.





Roads less travelled to the Swedish factory save tonnes of CO₂

In 2021, our Swedish factory took successful actions to reduce emissions from transports of materials to the facility. They worked with two of their largest inbound raw materials suppliers in shifting the suppliers' transports from road to rail. This generated savings in CO₂ emissions of upwards of 120,000 kilos annually.

A close-up photograph of a person wearing a purple long-sleeved uniform and black work gloves. The person is leaning over a large, white, grid-like structure, possibly a piece of machinery or a large filter. The word "LABOUR" is overlaid in large, white, bold, sans-serif capital letters across the center of the image. The background is a blurred industrial or office setting with overhead lights.

LABOUR

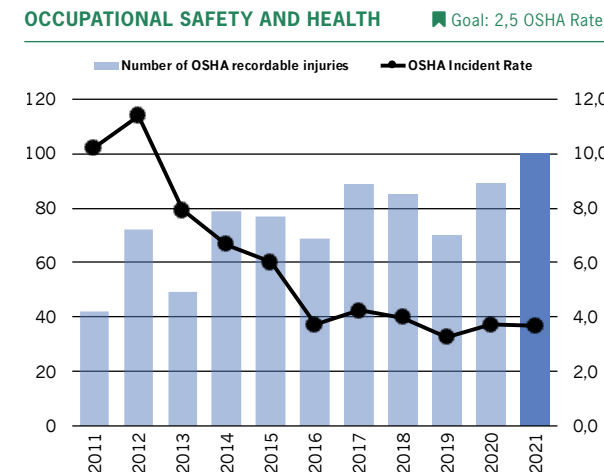
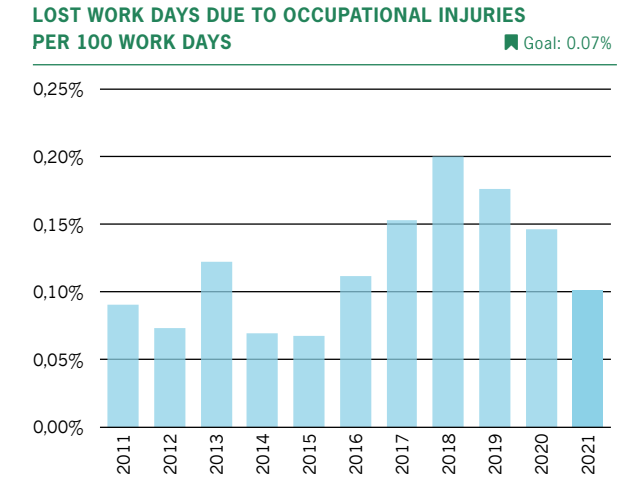
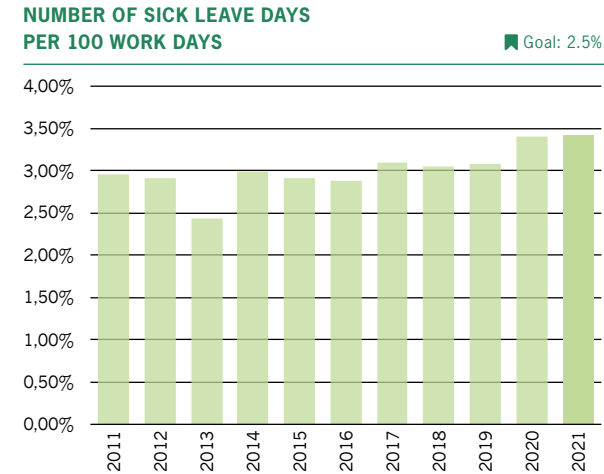
Safe and healthy workplaces is a top priority

The safety and health of all our employees remains one of Camfil's top priorities. We continue to support each other and closely follow local guidelines and mandatory regulations. Due to the COVID-19 pandemic, many of our offices were mostly unstaffed during much of 2021, and many of our employees worked from home. The work shifts at our production facilities, that were adapted in 2020 as a response to the new circumstances, were maintained to ensure the health and safety of our employees.



Camfil uses a global operational scorecard to measure the number of recordable occupational safety and health (OSHA) injuries. This is one of our key performance indicators and is defined as an injury that usually requires professional medical attention. It is measured monthly, while lost workdays are measured annually.

Most of the increase in number of OSHA recordable injuries in 2020 and 2021 was related to COVID-19 labour reporting legislation in Spain. In 2020, 29 out of 89 were recorded in Spain and in 2021 the figure was 26 out of 100 recordable injuries. Not including Spain, the figures would be in line with previous years instead of an increase.



Spanish regulation on incidents that cause employees to be absent from work in 2 categories:

- IT: Non-Work-Related Temporary Disability è non-OSHA
- AT: Work Related Temporary Disability è OSHA

Explanation to Spanish reporting: In the case of COVID-19, in order to avoid income loss to the large amount of people falling sick, the Spanish government instructed to classify it as AT (Work Related), thus employees would keep 100% of their salary, and, in order to not hurt businesses, the Social Security credit for COVID-19 cases was increased from 75% to 100%



Camfil Academy offers learning plans to new hires from day one

At Camfil, we have always taken pride in being a learning organisation. In June, Camfil Academy launched a global onboarding programme for new hires that not only gets them up to speed with company- and role-specific information, but gives them a learning plan for their career development.

Because onboarding and e-learning are integrated in this new learning platform, employees at any organisational level can engage with the company from day one and get the training they need. We also introduced another modern way to provide career development training with a new app, Go Learn.

For our busy employees on the go, the app offers on-demand access to course content so employees can learn at any time, anywhere.

3 GOOD HEALTH AND WELL-BEING



SDG 3 calls for actions to address determinants of health such as air pollution.

Camfil's products and the entire line of business revolve around helping our customers ensure healthy lives and promoting well-being for all ages. We do this by producing the highest efficiency air filters that remove harmful particles and contaminants in ventilated air and by providing air-pollution control systems that collect dust, mist and fumes for safer work environments. Whether for residential, commercial or industrial use, our products protect people, equipment, processes and the air we all breathe.

8 DECENT WORK AND ECONOMIC GROWTH



SDG 8 calls for promoting safe, secure working environments to create decent work opportunities.

Camfil provides satisfactory working conditions for nearly 5,200 employees at offices and manufacturing sites around the world. In addition to our Code of Business Ethics, Code of Conduct, and Health & Safety Handbook, which provide governance on these particular issues, we have strong human-resource management practices at our local workplaces and local employee healthcare programmes. Our global workforce helps us steadily grow sales and support economic growth in more than 35 countries. We conduct due diligence and proactively integrate our strong culture around work ethics in all companies that Camfil acquires.

From one day to lifelong job skills:

Camfil Ireland launches youth training programme

Inspired by the goals of the United Nations International Youth Day – developing and engaging youth in their communities, whether rich or poor – Camfil Ireland took real action and launched a new summer job training programme.

International Youth Day takes place on 12 August and aims to celebrate the qualities of today's young people while recognising the many challenges they face. It focuses on education, employment and the environment, among other topics related to the global sustainable development goals. Camfil took this one day a step further, deciding to employ three summer workers each year, aged 15-18, to provide them with valuable lifelong skills and learning opportunities. Chosen participants will get to practice interviewing, receive full training, keep to a fixed summer routine, gain employability skills, and build confidence while receiving a wage and protection under national employment legislation for young people.

Beekeeping for better business and a better world

Just like people, bees are highly sociable and organised. So when the Camfil Austria office in Vienna was looking for a way to showcase the impact of clean air on animals, humans and the entire ecosystem, it made its rooftop home to three bee colonies, and encouraged employees to get involved in their care.

According to the Food and Agriculture Organisation, nearly 75% of the world's crops that supply fruits and seeds for human consumption depend in part on pollinators for sustained production, yields and food diversity. Factors like climate change, air pollution and habitat loss lead to bees and their colonies declining at an alarming rate. Harmful levels of particulate matter are reducing flower visitation and jeopardising our own health.



The approximately 40,000 bees in each hive are cared for by an experienced local beekeeper together with interested employees, who receive training and can help harvest the honey which is then bottled under Camfil's own name. Camfil is proud to be protecting bees and raising awareness among employees and customers alike as part of its sustainability efforts.



– How we communicate about sustainability internally

Camfil engages employees in local sustainability and corporate social responsibility actions through a programme called CamfilCairing. The name is built around Camfil, our environment, caring and the air we breathe. This global, group-wide programme integrates sustainability initiatives and good corporate citizenship into our business strategy.

As part of the programme, each year Camfil companies host a Cairing Week during which we place a special focus on community outreach events and internal improvement measures related to our business of promoting health and well-being through clean air. From beach clean-ups to resource efficiency programmes to raising health awareness, our people engage, educate and inspire.

camfilcairing



Pallet waste was used to create furniture and a garden at Camfil Brazil

JAGUARIÚNA, BRAZIL

We are proud to present our Camfil Green area. A sustainable initiative that was quickly created during CamfilCairing Week Brazil and was promoted by our employees, giving life to this beautiful place. The project was done using pallets which otherwise would have become waste. With the help of the pallets, we created a new space for resting and leisure.

Camfil Brazil is constantly thinking about sustainability and how to improve the organisational climate in the company with the aim of engaging employees. It was from this enthusiasm and desire to contribute that an employee initiative called Green Camfil grew and came to life. Stefani Scareli, who is a Controller Analyst at Camfil Brazil, realised that there was a lot of waste from the facility in Jaguariúna. Waste that could be reduced by being upcycled* and become something new and valuable.

Stefani came up with the idea to reuse the pallets used for shipments that were otherwise going to be dispensed as waste. She thought they could make furniture from the wood pallets to create a green lounge area on the company premises. The idea was highly appreciated and put into practice very quickly with the support and collaboration of Stefani's colleagues at Camfil Brazil.

The employees gathered on a Saturday to start building. A great teamwork turned the pallets into tables, benches and bicycle racks and were also used to create Camfil Brazil's own vegetable garden where employees can grow fruits and greens. "I also wanted to give life to this space. So, I came up with the idea of using the scrap pallets to start a vegetable garden. We used the pallets and built structures for hydroponic cultivation and planted vegetables, and we also planted fruit trees. It is so beautiful to see the plants grow!" says Stefani Scareli.



"The initiative, the participation of all involved, was so gratifying. It was a day full of good laughs, learning, fellowship and social interaction. Our little corner has a little bit of each Camfil member."

STEFANI SCARELI

* *Upcycling: reuse of discarded objects or material in such a way as to create a product of higher quality or value than the original.*



City M air purifiers ensured a safe reopening in Cinisello Balsamo

During CamfilCairing week 2021, Camfil Italy donated three City M air purifiers to the reading room at the “Il Pertini” which is the town library and cultural center in the Italian municipality of Cinisello Balsamo, just north of central Milan.

The City M air purifiers were installed in the Study Room during an official ceremony. Presiding over the ceremony were Camfil Italy’s Managing Director, the Mayor of Cinisello Balsamo, the Councillor for Culture, the Director of the Culture sector and the Head of the library. The town mayor and the council member for culture accepted the donation. They expressed deep gratitude for this initiative, which would contribute to a safe reopening of this very important center for local culture and social gatherings.

Equipped with H14 filters and activated carbon filters, City M air purifiers are able to eliminate viruses, pollen, bacteria, particulate matter, ozone, chemicals and other harmful contaminants from the indoor air. As Camfil Italy’s Managing Director, Luciano Rogato, said:

“It is an honor for Camfil to have donated three air purifiers to the reading room of Il Pertini cultural center. Il Pertini has a central role in promoting culture, social gatherings and social interaction in the community of Cinisello

Balsamo, which Camfil has been part of for more than 40 years. It seemed to us an important contribution to support a safe reopening after such a difficult period with the COVID-19 Coronavirus.”

The three air purifiers were placed in different corners of the study room. At the time of the donation the study room could only be kept open to a limited number of students. However, with a gradual return to normality and approaching exams many wanted to go to the town library to be able to better focus on their studies. And this is where Camfil’s solidarity with the community came into play in an important way.

“I thank Camfil for having thought of this donation for our city library. It is frequented by many young people for studying and reading, and it is a center for social gatherings and social interaction”, said the mayor Giacomo Ghilardi. “The Pertini has been closed for some time due to the health

emergency, which is still ongoing. We know how much discomfort this has created for many students and not only them. The installation of these machines will allow a more comfortable and healthy use of the underground environments. This gesture is a beautiful sign of attention to the services of the territory in which we live and work”.

The Culture Councillor Daniela Maggi added: “Thank you for this gesture of attention and enhancement of the symbolic place of culture in the city: Il Pertini. Our library is frequented daily by many young people and by reading and film enthusiasts of all ages. It is very important that the rooms are safe to visit and the installation of these air purifiers will help with that.”



A woman with long dark hair is shown in profile, looking upwards towards a bright sunburst breaking through a dense forest of trees. The scene is backlit, creating a soft, golden glow. A white rounded rectangular box is overlaid on the image, containing the text 'Human rights'.

Human rights

In our business and beyond

Camfil's stated vision is to make clean air a human right. We are passionate about creating awareness and educating people on this critical topic by providing knowledge, expertise and resources. Externally, our commitment to respect human rights informs our operations, extending from employees and suppliers to customers and society at large.

Our approach to human rights is based on the United Nations Guiding Principles (UNGP) on Business and Human Rights, which emphasise the responsibility of companies to respect human rights even if government actions and regulatory frameworks fail. We are a signatory to the United Nations Global Compact, and we support and comply with the Compact's ten principles, including human rights. Our commitment is incorporated in Camfil's policies and procedures including our Employee Code of Conduct, Business Partner Code of Conduct and Owner's Directive.

Dedicated to diversity and inclusion

Camfil strives for an inclusive business culture where all employees can overcome stereotypes and develop to their full potential. We believe that diversity and inclusion help attract, develop and retain talent, to spark innovation and to meet and exceed customer expectations.

At Camfil, we are convinced that striving for diversity and equal opportunities helps to build a more sustainable and attractive company. A company that embraces diverse backgrounds and experiences not only benefits the employees, but is good for business too.

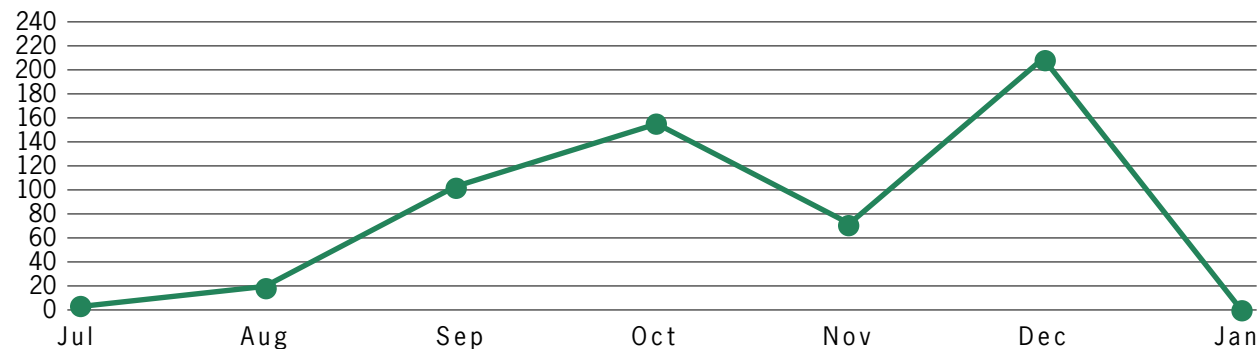
GEEIS is an internationally recognised label for companies that demonstrate a strong, successful commitment to achieving diversity and equal opportunities in the workplace. GEEIS assesses companies from three broad



dimensions: management tools, HR and managerial practices, and the global impact of European and international policies.

Camfil widened the scope in 2020-2021 and increased the number of production companies to be GEEIS certified from 16 to 23. During 2021, two of our French companies as well as our Spanish subsidiary were GEEIS certified – that makes a total of 16 Camfil companies.

NUMBER OF SESSIONS PER MONTH



E-learning Global Diversity and Equal Opportunities Policy

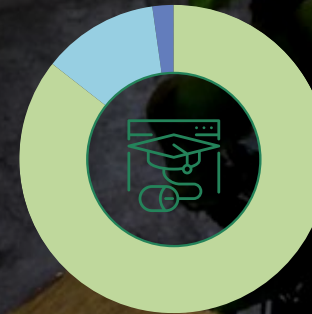
To raise awareness about equal opportunities throughout the company, we provide online training through our internal training platform, Camfil Academy. The training was launched in August 2020, and so far over 270 employees enrolled in 2020. Currently 86% completed their training by the end of 2020.



33 (12%)
TO BEGIN

6 (2%)
IN PROGRESS

235 (86%)
COMPLETED



TARGET/KPI: All major Camfil production companies should be certified as a minimum at Level 1 of the Gender Equality European & International Standard (GEEIS) by the end of 2023.



Anti-corruption and business ethics

EMPLOYEE CODE OF CONDUCT: “THE CAMFILCAIRING CODE”

Ethical and sustainable business practices will always be a top priority for Camfil. We are convinced that high ethical standards and strong values build pride and create long-term value that benefits our customers, company, employees and our communities. In 2021, we updated our Employee Code of Conduct, also called the CamfilCairing code, to include more information about our whistleblowing process and our governance model.

The code is available in 10 languages to make it accessible for all employees. The updated code also clearly states how the code applies to all of us, from our owners to each of our employees worldwide. Our leaders have a particular responsibility to lead by example and act as a company ambassador. Managers must not turn a blind eye to unethical conduct.

Our managers are responsible for making sure people on their team are provided with the training necessary to understand the code and its related policies. The new code was launched in April 2021 in connection with the CamfilCairing Week with an e-learning course. The training was a way to raise awareness of the importance of doing business in

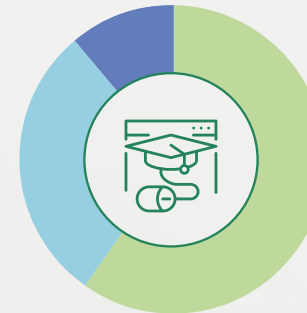
an ethical way and the theme of the week was “COOL HEADS, PASSIONATE HEARTS & CLEAN HANDS” which is one of our Owner’s Directives.

Office workers with Camfil-emails were enrolled in training and by the year-end 1741 employees had completed it (60%). The training is now also part of our global onboarding learning plan for new hires that was launched in June 2021. By year-end 86 employees had completed it which is 70% of all enrolled.

843 (29%)
TO BEGIN

320 (11%)
IN PROGRESS

1741 (60%)
COMPLETED



WHISTLEBLOWING

Camfil believes that it is critical not only to ensure compliance with applicable laws, but to enhance transparency and accountability across the organisation. To support our efforts in identifying potential ethical and fraudulent violations, Camfil provides, together

with an external partner, a whistleblowing service to all employees for reporting their concerns confidentially. The service is encrypted and password protected, and using the system is voluntary.

Employees who come across a situation that does not appear to conform to the principles set out in our Code of Conduct, our policies, or the law are expected to bring their concern to the company’s attention. This way, we can improve our work environment and reduce risks for the company so that we can continue to be an ethical and sustainable company.

Our employees’ privacy and integrity are essential at all times. The whistleblowing service is therefore outsourced to a third party, so any employee who voices a concern in good faith can report anonymously without the fear of any negative consequences. The whistleblowing policy is available in 15 languages to make it accessible for all employees.

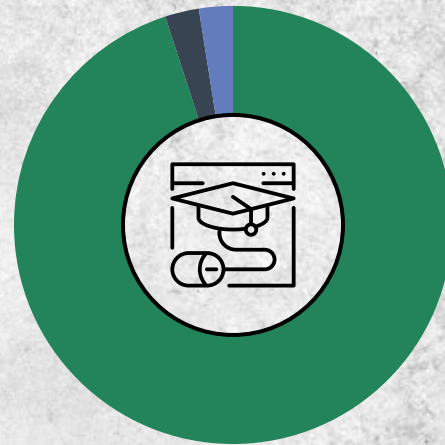


Trade compliance

Camfil delivers products and services to countries around the world. We are committed to fully complying with all applicable laws and regulations on trade sanctions and export control of the European Union, the United States and the United Nations, and other local laws and regulations that govern the sale, supply and export of Camfil products, services and technical data. Camfil's Owner's Directive clearly states that Camfil must step away from a business deal if there is a risk of non-alignment with our moral and ethical values.

Camfil has a dedicated Group Trade Compliance Manager who is tasked with ensuring that our policies and procedures on trade compliance are effective worldwide. Trade compliance procedures are in place for export licensing, screening of third parties on a risk-based approach, reporting structures, product classifications, mandatory contract clauses, country-specific requirements, end user certificates and red flag situations.

We train our employees to raise their awareness and understanding of trade compliance, and we incorporate trade compliance in all day-to-day operations. In June 2020, Camfil Academy launched an e-learning course that covered the updated trade compliance policy. This training is mandatory for senior management within finance, sales and other key employees. We enrolled 120 employees in the course, and 95% completed their training by the end of 2020. (Reference: Camfil Academy Code of Conduct user status per 31 dec 2021)



PROGRESS

113 | 95% completed

3 | 3% to begin

3 | 3% in progress



Good code, bad code

DATA SECURITY AND PRIVACY

Digitalisation brings great opportunities to enhance and grow our offer in virtually all areas of Camfil's operations. At the same time, it comes with challenges related to information security and data privacy.

The risks of being affected by cybercrime has increased tremendously in recent years. As a global company Camfil must always stay vigilant to mitigate risks and potential threats. Like in other areas of our business, we work systematically with all aspects of information security engaging and educating all our employees in how to handle our information assets in a conscious and secure way.

National laws and regulations protect citizens right to control how personal data is stored and processed. Camfil's Data privacy policy and Information management handbook describe how Camfil ensures compliance and protection of personal data.



SECURITY AWARENESS TRAINING

During 2021, 90% of our employees participated in our continuous Security Awareness Training.

SUSTAINABLE IT

– Long live the computers

As a growing global organisation that continues to embrace digitalisation, Camfil has a great responsibility to minimise waste generation. We do this by managing our IT assets sensibly and migrating from a throwaway mentality to lifecycle management where we reuse all that we can.

We only invest in the most high-quality and energy efficient computers that we can find. The durability of these products is fundamental for supporting a sustainable economy. The longer they can be kept in use, the more we limit the need for resource use in new products.

In Europe, we have previously returned all our computers to a supplier who securely erased all data, and then refurbished the computers and resold them. As many as 98% of all returned devices have been resold in this manner. And the computers not in a resell condition, were sent away for material recycling. We have unfortunately had to put this circular system on pause during the COVID-19 pandemic, due to a global chip shortage. However, we will start it up again as soon as we can.

We follow the same principle of refurbishing and recycling devices

in Asia and the Americas – including the United States, where we have managed to refurbish 95% of all return-devices through one supplier.

In some cases, we manage recycling of computer equipment internally at Camfil by securely erasing all the data before we offer it to staff or donate it to charity. When used devices are sold, we no longer have control over their future destiny. This is why we only sell them within or to countries that have adequate programs for recycling electronic equipment. Refurbished devices are typically in use for another four years.



Clean air and clean business partners

CODE OF CONDUCT FOR OUR BUSINESS PARTNERS

In 2021, Camfil updated its Code of Conduct policy for Business Partners. The purpose of the update was to align with a more comprehensive Code regarding in-depth business conduct controls and stricter transparency requirements when it comes to proof of compliance.

Camfil now focus more on active reporting systems for managing and maintaining improved adherence to the Code of Conduct.

The changes in the Code particularly address trade compliance and money laundering, as well as anti-corruption guidance, which is now more extensive and specific. The United Nations Global Compact's ten principles are integrated in Camfil's Code of Conduct. Our environmental compliance requirements for external partners now include a more modern approach. We strive to incorporate both practices and technology in order to promote energy efficiency and sustainable use of resources.

Another key effort has been to strengthen legal contracts related to the Code. General supply and development agreements have been significantly upgraded. Camfil has also initiated mandatory sign-off from our primary material suppliers on the new Code of Conduct if they want to stay in business and grow with Camfil.

In addition, a more sophisticated supplier performance and evaluation program was piloted in 2021. Its aim was to achieve a more formal and strict mechanism for justifying and establishing long-term global supply chain strategies.



United Nations
Global Compact

Welcome to Camfil Taicang!

What does our new Taicang plant look like now?

Is it far from where I live? Is it comfortable? Is it safe?

To answer these questions in a most convincing way, on Nov 5th 2021, we organised a group visit tour to the Taicang new plant. A total of 45 employees and representative from Camfil Kunshan joined the activity.

The easy, safe and comfortable shuttle bus journey takes only 30 minutes. Entering the plant campus, so many WOW and shining points were discovered: from the modern and artistic building, the human and convenient office layout, the spacious and comfortable workshop and warehouse areas to the clean and pleasant canteen and pantries.

Say goodbye to the hot summer sunshine or cold winter wind on our way to work; to the leakage in rainy seasons; to the crowded canteen and office areas in Kunshan.

From Camfil Taicang, we can now send a sincere invitation to all Camfil Kunshan colleagues:

TOGETHER TO TAICANG, GREAT IN TAICANG!



Camfil Sustainability Report 2021

CAMFIL – A GLOBAL LEADER IN AIR FILTERS AND CLEAN AIR SOLUTIONS.

For more than half a century, Camfil has been helping people breathe cleaner air. As a leading manufacturer of premium clean air solutions, we provide commercial and industrial systems for air filtration and air pollution control that improve worker and equipment productivity, minimise energy use, and benefit human health and the environment.

We firmly believe that the best solutions for our customers are the best solutions for our planet, too. That's why every step of the way – from design to delivery and across the product life cycle – we consider the impact of what we do on people and on the world around us. Through a fresh approach to problem-solving, innovative

design, precise process control and a strong customer focus we aim to conserve more, use less and find better ways – so we can all breathe easier.

The Camfil Group is headquartered in Stockholm, Sweden, and has 31 manufacturing sites, six R&D centres, local sales offices in more than 35 countries, and about 5,200 employees and growing. We proudly serve and support customers in a wide variety of industries and in communities across the world. To discover how Camfil can help you to protect people, processes and the environment, visit us at www.camfil.com

www.camfil.com



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