

emissions

THE SCHEUCH MAGAZIN FOR
VENTILATION AND ENVIRONMENTAL
TECHNOLOGY



VERSATILITY AND SMART NETWORKING

Scheuch excels with optimal
networking and varied
business areas

→ FROM PAGE 4

Is clean waste incineration
really possible?

→ PAGE 14-20

Specializing in
diversity

→ PAGE 28-30

VERSATILITY AND SMART NETWORKING

→ [Page 04](#) In conversation with
Stefan Scheuch

SCHEUCH'S PLAN FOR REDUCING EMISSIONS

→ [Page 08](#) A guide to options for
reducing emissions

IS CLEAN WASTE INCINERATION REALLY POSSIBLE?

→ [Page 14](#) Complete concepts in
waste incineration
applications

A CLEAR PATH TO SUCCESS – WITH A DYNAMIC TEAM

→ [Page 20](#) New approaches in the
glass sector

THAILAND CONVERTS TO EMC TECHNOLOGY

→ [Page 22](#) Proven bag filter
technology

CUSTOMER SERVICE: GUARANTEEING YEARS OF SATISFACTION

→ [Page 24](#) Sustainable, responsible,
and forward-looking

SPECIALIZING IN DIVERSITY

→ [Page 26](#) Devices and components
on course for growth

SCHEUCH LIGNO ALSO SEEING SUCCESS IN THE METALWORKING SECTOR

→ [Page 30](#) Dust-free working
environments and perfect
surfaces from now on

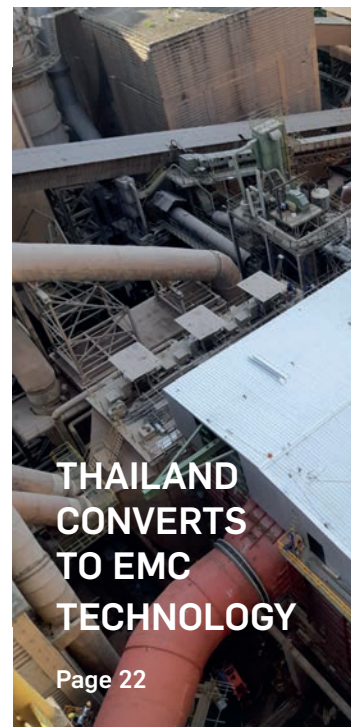
NORTH AMERICA STRIVES FOR EXCELLENCE

→ [Page 34](#) Committed to peak
performance



SPECIALIZING IN DIVERSITY

Seite 26



THAILAND CONVERTS TO EMC TECHNOLOGY

Page 22



SCHEUCH LIGNO ALSO SEEING SUCCESS IN THE METALWORKING SECTOR

Seite 30

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Please note, that masculine pronouns are used to refer to all genders in this report
to ensure better readability.

Dear Readers,

It's not just what you know but who you know. This year's issue of our customer magazine, "Emissions" is dedicated to smart networking.

Relationships broaden opportunities, and at Scheuch we have lived by this fundamental value for a long time, but we want to become even better. Whether it's new teams for new industries, products developed in collaboration with customers,

synergies within Scheuch's business units, smart maintenance systems or other possibilities.

We will also be presenting exciting projects from many industries and show you insights into our services. And perhaps your sector will be among them!

We hope you enjoy leafing through the pages and discovering Scheuch's many possibilities.



Thomas Eberl
Thomas Eberl
CFO
Scheuch Management Holding GmbH


Stefan Scheuch
Stefan Scheuch
CEO
Scheuch Management Holding GmbH

Jörg Jeliniewski
Jörg Jeliniewski
COO
Scheuch Management Holding GmbH



„VERSATILITY AND SMART NETWORKING“

An interview with Stefan Scheuch
CEO of Scheuch Management Holding GmbH



As an international technology leader in environmental technology, Scheuch is holding on to its top spot, even in times of crisis. Stefan Scheuch, CEO Scheuch Management Holding GmbH, reports on the reasons for this along with some recent changes and reveals his vision for the future. "Turbulent times have taught us that we are all connected."

Mr. *Scheuch, together with Jörg Jeliniewski (COO) and Thomas Eberl (CFO), you are the second generation running your family business. What has made Scheuch stand out today and in the past?*

Scheuch is a company which capitalizes on the best aspects of its family structure. Whether we are talking about the present or the past, it means developing and maintaining relationships with our customers, suppliers, and, of course, our employees. Good relationships are characterized by trust and longevity.

More than 55 years of work on technologies for clean air is a success story on several levels: We are a company that has developed from a sheet metal workshop to now having over 1,400 employees, while at the same time, we are also carrying with us more than 55 years close relationships – initially on a purely regional basis, but gradually expanding to an international scale.

Curiosity is a part of this and remains at the company's heart. A thirst for knowledge and the pursuit of innovation were driving forces for my father and our founder, Alois Scheuch. And this still spurs us on today. Developments in new technologies and increasing digitalization continue to move the business forward and make us pioneers in environmental technology.

The company structure has changed, especially in recent years. What led to these steps being taken? And have they had a particular impact on your customers?

Scheuch is constantly growing, and this progress means we must continuously look at procedures and processes at all levels. Restructuring within the company is necessary to remain flexible and competitive as we work towards our primary goal of being even closer to our customers.

This resolution is now taking shape within all Scheuch companies. In particular, we are focusing on better networking with customers – including with the help of new digitalization systems. For example, we have recently been able to offer our customers a further benefit in the form of well-thought-out maintenance contracts that provide a unique service and are closely linked to the customer's needs.



Scheuch has weathered the ongoing crises well with full-order books. How has this been possible? And are price increases on the horizon?

The most significant success factors here are Scheuch's versatility and networking. Our wide range of products supports industries such as industrial minerals, energy, metal, wood, and glass. We support a huge market that must be supported by cutting-edge environmental technology systems.

But Scheuch is not stopping there. New solutions, including in the field of noise and odor reduction, as well as Scheuch's range of equipment and components, continue to point to a bright future. Global networking, whether with partners or with our corporate sites, also benefits us in times of crisis, like the ones we have experienced in recent years and months.

At present, we can say little about future pricing. The COVID-19 pandemic and the conflict in Ukraine both triggered a real shock in the commodities markets. However, reactions varied depending on the commodities group. The prices of industrial metals, which have the most significant impact on us, are closely linked to the global economy and fell only moderately in the early days of the crisis. The subsequent development now shows an increase far beyond the pre-crisis level. I hope these current highs will settle down again to acceptable levels for all concerned in the foreseeable future. We are certainly not the only ones who must learn to cope with rising energy prices and the prevailing shortage of materials and commodities.

“There is a staggering level of potential in the environmental technology sector.”

– Stefan Scheuch,
CEO Scheuch Management Holding GmbH

Do you have a personal vision for the future of the environmental technology sector?

There is a staggering level of potential in the environmental technology sector. However, research and – above all – implementing the many good ideas are still in its infancy.

More than anything, these times of crisis have taught us that we are all connected. People, nature, machines ... and all on a global scale. Climate change is increasingly being felt around the world. How quickly we adapt and move towards considerate, honest, and healthy cooperation is down to us – and our intelligence. At Scheuch, our focus is on people's health and the environment. Every day we take new steps in the right direction with our work and developments. And in the future, we want to be even more sustainable, digital, and intelligent than before.

My vision coincides with the Scheuch corporate vision: Our sustainable technologies ensure a clean planet for future generations.

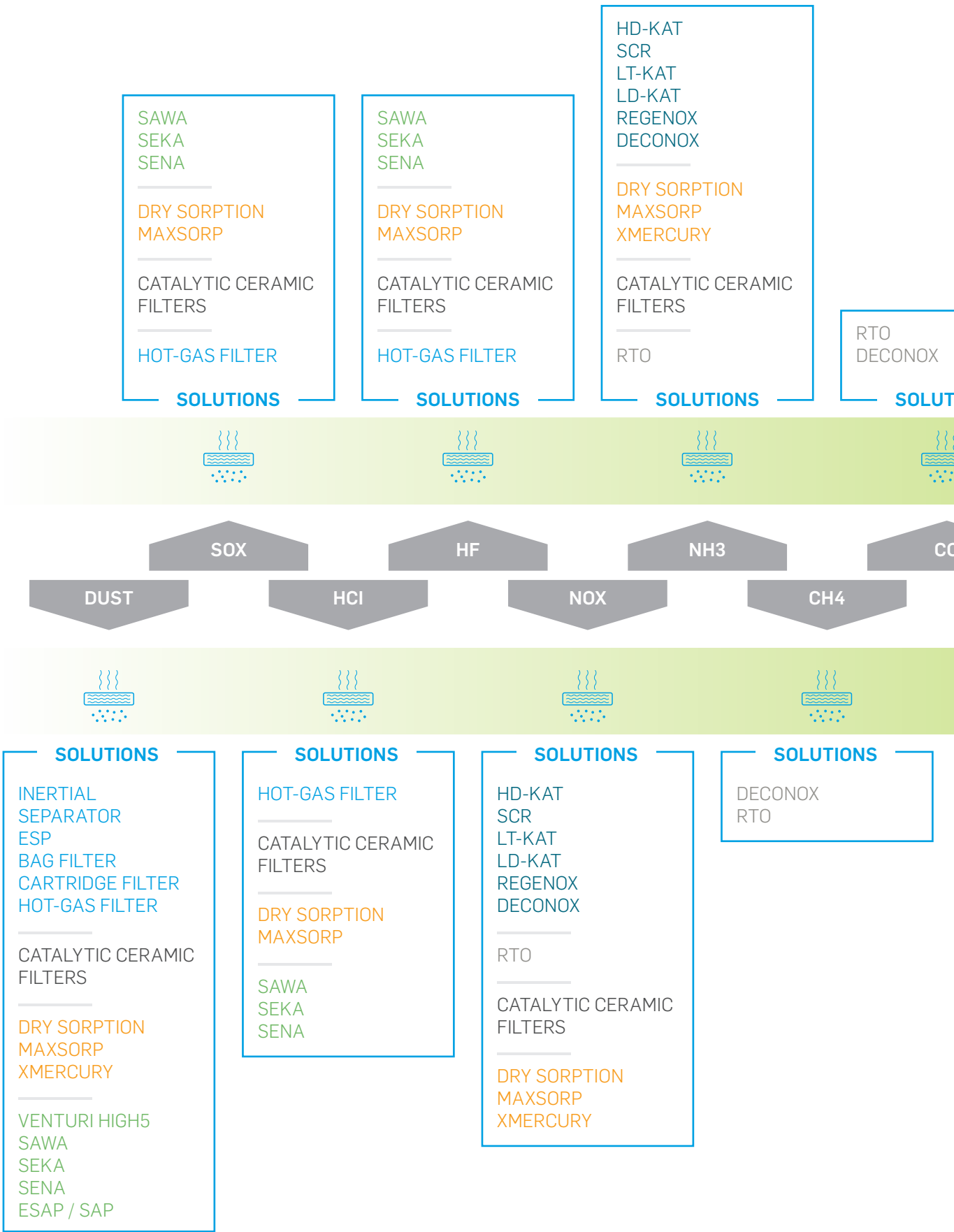


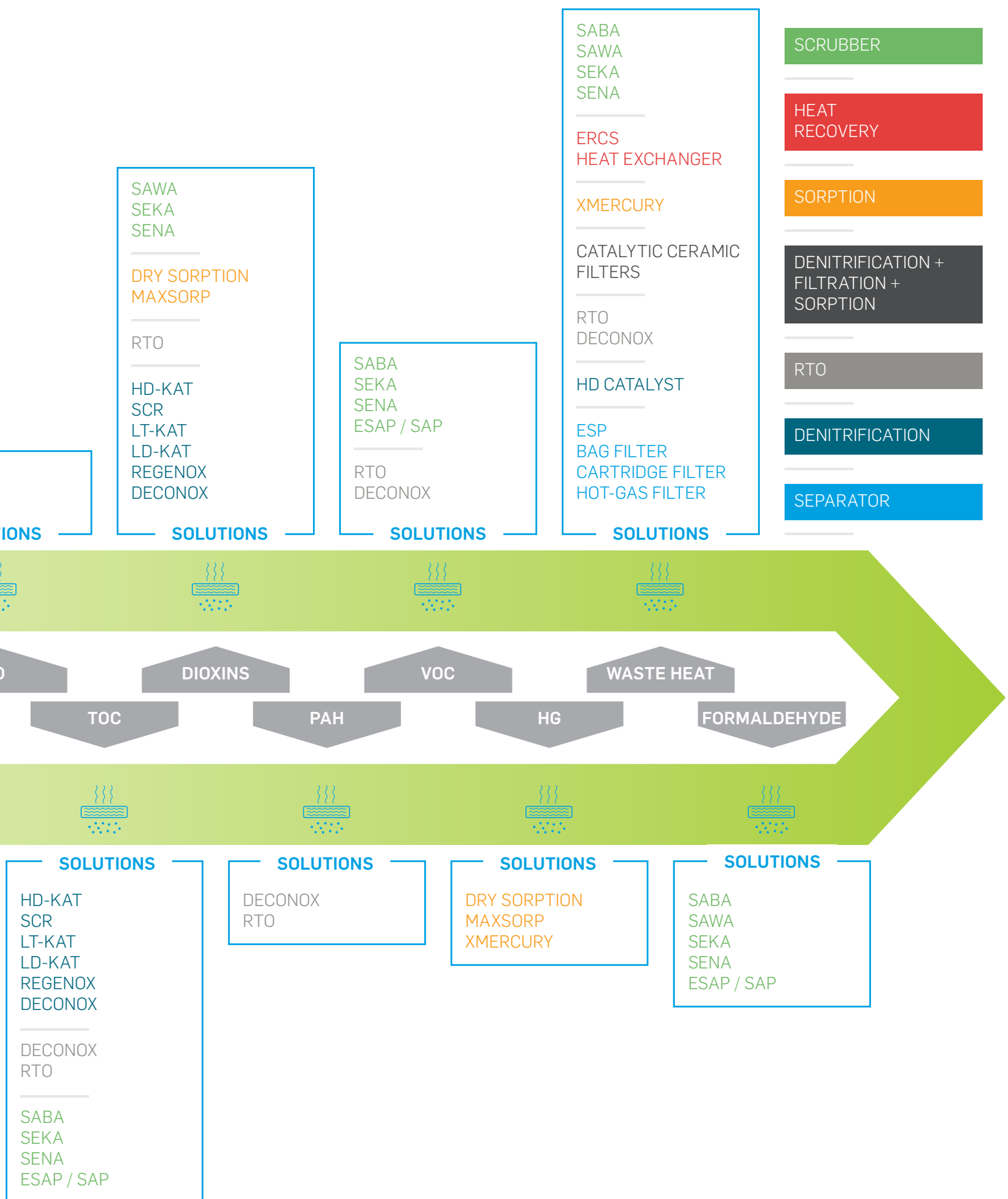


SCHEUCH'S PLAN FOR REDUCING EMISSIONS

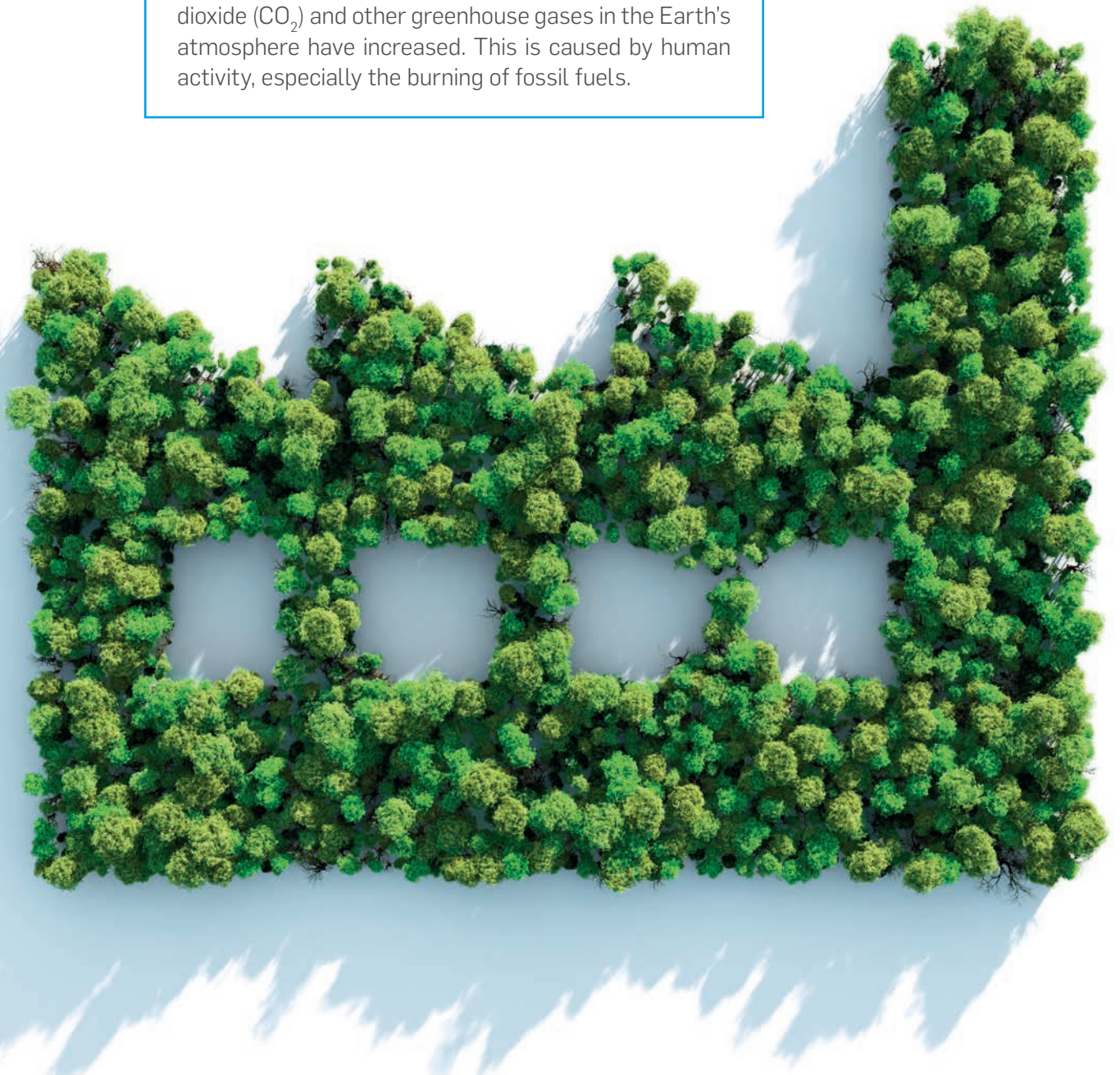
Scheuch technologies offer an almost infinite number of possibilities when it comes to reducing emissions. And it's worth noting that the information on the next few pages doesn't even show the full picture! But what it does show is that many roads lead to Rome, or in this case, to the desired reduction in emissions.

Find out more about emission reduction:
<https://www.scheuch.com/en/about-scheuch/industries/>





Since industrialization began, both the average global air temperature and the concentration of carbon dioxide (CO₂) and other greenhouse gases in the Earth's atmosphere have increased. This is caused by human activity, especially the burning of fossil fuels.



And not to worry if you've lost track of the details, as you can benefit from the comprehensive and overarching industry expertise of Scheuch's technical experts, who develop exactly the right solution for every requirement.

ANYTHING IS POSSIBLE

Because "everything from a single source" is not simply a buzzword at Scheuch, but the reality. The

skilful nesting of technologies, coupled with knowledge and experience, ensures compliance with the strictest limits in a wide range of industries. The option of implementing pilot and measurement systems in cooperation with our customers enables us to respond very specifically to process requirements and customer wishes. In most cases, pilot systems lead to mature Scheuch products and technologies that can then be used on a broad basis.

SEPARATORS

The term separation describes splitting a mixture of substances consisting of dust or dust particles and gas. The technical equipment used to achieve separation is called a separator. The type of separator used will vary depending on the separation principle that is involved in a particular process. Types of separator include inertial separators, electrostatic precipitators (ESPs) and filtering separators (bag, cartridge or hot-gas filters), also known as filters for short.

SCRUBBERS

Wet separators are systems that bring the components of a gas flow into contact with a water flow; they clean the exhaust air by passing it through various filter stages (wet electrostatic precipitator, bio-scrubber). The components of a gas flow can include solid, liquid and gaseous substances. Coarse particles settle naturally in the water and are collected in a discharge container.

SORPTION

Sorption is the generic term for processes in which a substance attaches itself to another substance either through incorporation (absorption) or physical adherence or bonding onto the surface of another phase (adsorption, e. g. gaseous/solid). The processes used by Scheuch, including dry sorption, MAXSORB and xmercury, are types of adsorption. Chemical adsorption describes the formation of a chemical bond between the sorbent and the harmful gas. The sorbing substance – also referred to as the “sorbent” – is always dry in the above processes.

DENITRIFICATION, FILTRATION, SORPTION

Catalytic hot-gas filtration facilitates “multiple pollutants monitoring” of exhaust gas at temperatures up to approx. 350 °C. Both dust and nitrogen oxide (NO_x) are reduced by coating the filter media with a selective catalytic reduction catalyst. An additional combination introducing a sorbent dosage (hydrated lime, bicar) enables acid gases (SO_x, HCl, HF etc.) to be separated at the same time. By combining filtration, catalysis and sorption in this way, both particles and gaseous harmful substances can be removed at the same time.

DENITRIFICATION

When using selective catalytic reduction technology for denitrification, a catalyst is used to reduce the reaction temperature for converting nitric oxides (NO_x). NH₃ (ammonia) is needed to reduce NO_x; it is introduced to the flue gas by adding a solution of ammonia or urea water. NH₃ reacts with NO_x from the exhaust gas at the catalyst and is converted into N₂ (nitrogen) and H₂O (water). Scheuch is able to offer selective catalytic reduction technology in a variety of designs (including high-dust catalysts and low-dust (selective) catalytic reduction systems, for example). With the patented deconox® technology, Scheuch can also offer a combination of selective catalytic reduction and RTO technology.

RTO

Regenerative thermal oxidation (RTO) is used in applications that require volatile organic compounds (hydrocarbons), CO, HCN or even odors to be removed from exhaust air. The charged exhaust gas is burned in a firing chamber. In regenerative thermal post-combustion, the treated exhaust gas transfers its heat to regenerator stones which act as a thermal store mass. Treated and untreated exhaust gas flows through the regenerators in alternating cycles. As the regenerators themselves reheat the untreated exhaust gas, the energy required for the combustion process is significantly reduced.

HEAT RECOVERY

Heat recovery systems recover the heat from the combustion gas in the boiler plant. Without them, the heat would otherwise be lost out of the chimney. Scheuch ercs systems (energy recovery & cleaning systems) use flue gas condensation to recover up to 30 % of boiler output. They cool down exhaust gases in a heat exchanger, triggering water vapour condensation and enabling energy to be recovered. Scheuch offers a solution combined with a heat pump for high network return temperatures in district heating systems.

IS CLEAN WASTE INCINERATION REALLY POSSIBLE?

Scheuch comes up trumps: Energy recovery and reduced emissions in waste incineration. Valuable energy is obtained when waste is incinerated. However, large quantities of emissions and pollutants are also produced in the process. By using and combining the latest flue-gas cleaning technologies from Scheuch, these pollutants are significantly reduced – protecting people and the environment in the best possible way.

As a pioneer in environmental technology, Scheuch is continuously setting new standards with its innovations. Scheuch's technologies have been proving their worth in biomass power plants for more than 30 years and the company has been one of the world's leading manufacturers in this field for decades. In addition to providing technologies that significantly reduce pollutant emissions, this means that Scheuch is making a valuable contribution to climate protection. Scheuch stands for energy-saving system concepts based on the lowest possible operating costs and the highest possible availabilities, as well as offering solutions with heat recovery integrated in the flue-gas cleaning system to increase energy efficiency.

These integrated overall concepts are now increasingly being used in waste incineration systems as well. In addition to emission reduction targets based on the best available techniques (BAT) conclusions according to Directive 2010/75/EU of the European Parliament with regard to waste incineration, it is also becoming increasingly important to achieve a significant reduction of CO₂ loads. To help achieve this, a long-standing team of system engineers was expanded to 15 members who deal exclusively with flue-gas cleaning and heat recovery systems in the field of combustion. This means that Scheuch is now increasingly able to create complete concepts for customers and provide comprehensive advice.

AIMING FOR THE TOP 3 IN EUROPE

Scheuch's customers can take full advantage of the extensive product portfolio and the technological edge that has been developed over decades. Scheuch manufactures all the necessary products such as electrostatic precipitators, bag filters, sorption systems, heat recovery systems and selective catalytic reduction systems itself and is not reliant on suppliers. "Our customers also have the benefit of our strategic expertise, our extensive knowledge of processes and, crucially, our reference projects. We have a clearly defined aim: We want to make it into the top 3 suppliers in Europe in the waste-to-energy sector and continue to be the first point of contact for customers around the world in the biomass combustion sector", says Klaus Emprechtinger.

OPTIMAL VALUE CHAIN

At Scheuch, everything comes from a single source – from consultation and engineering to production, assembly, and commissioning, as well as our own service department. Because we have our own research and development department, everything works together seamlessly, and the entire value chain is optimally coordinated. "This is our unique selling point. In-house production also ensures consistent quality, technically advanced products, quick adaptability to changing market requirements and therefore excellent competitiveness", says Klaus Emprechtinger. "The projects we handle are as diverse as our custo-

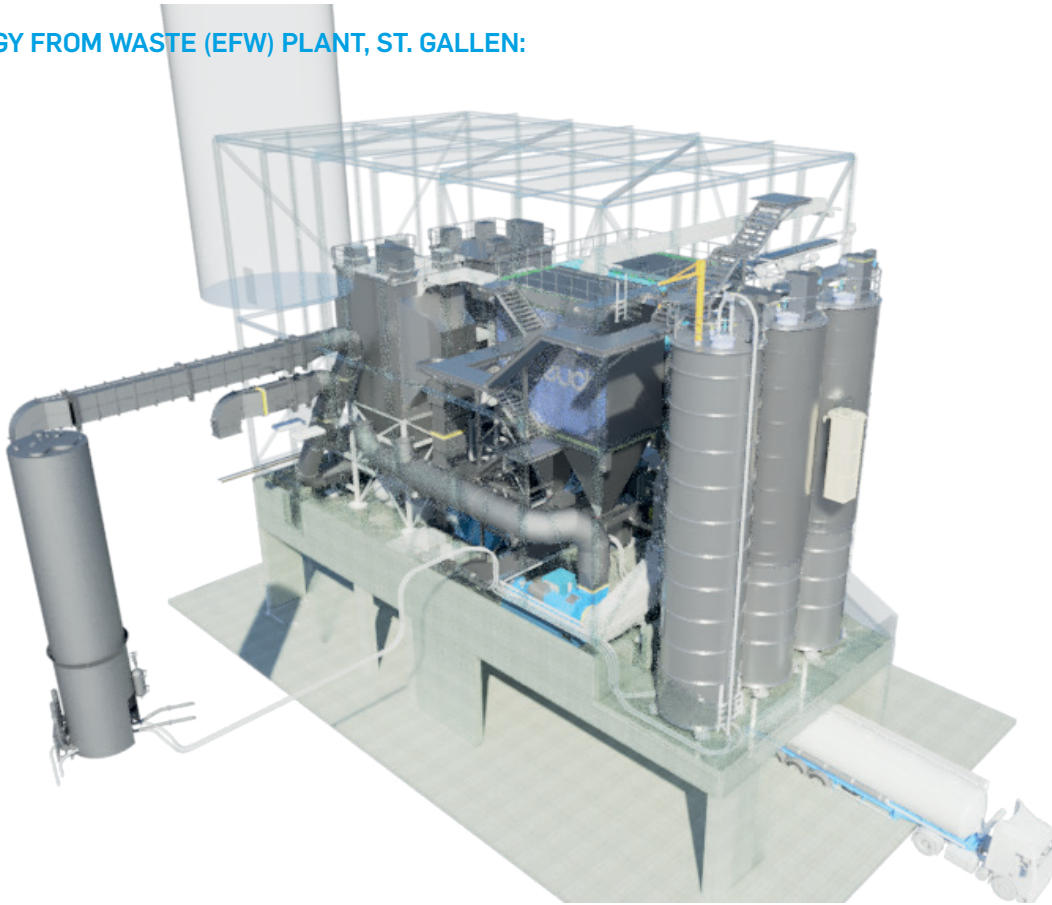


mers and their specific project requirements. As a result, flue-gas cleaning concepts have to be constantly rethought and, if necessary, adapted. In addition to

complete solutions for new systems, we also supply corresponding individual components and modernize existing flue-gas cleaning systems.”

CURRENT PROJECTS:

ENERGY FROM WASTE (EFW) PLANT, ST. GALLEN:



The existing flue-gas cleaning system at the Swiss EfW plant was built in 1987 as a wet, wastewater-free system with electrostatic precipitators, wet scrubbers, and spray dryers in two separate lines. After a thorough examination, the Entsorgung St. Gallen waste management service decided to convert the flue-gas cleaning system to a pure dry process with downstream heat recovery. This step also improves the heat balance of the entire system.

For the purpose of fly ash pre-separation, a dry electrostatic precipitator is added to each of the two combustion lines. In order to reduce the space requirements of the system and minimize the operational and maintenance expenditure, the two flue-gas flows are combined. To bind the pollutants, several additives are introduced into the flue-gas flow and then separated again using a 4-chamber fabric filter. Due to the high flue-gas temperatures on the boiler side

and the removal of the wet flue-gas cleaning system, valuable energy can be recovered here by means of an additional heat exchanger.

Place of installation: CH-9001 St. Gallen

Fuel: Municipal waste

Technology: Electrostatic precipitator, pulse jet filter (online) with dry injection (bicar + ac) and heat recovery

Flue gas flow: $2 \times 73.500 \text{ m}^3/\text{h}_{\text{wet}}$

ADVEN / SWEDEN



Scheuch will supply a flue-gas cleaning system for energy company Adven's new 30 MW boiler plant for Arctic Paper in the Swedish city of Munkedal. This new flue-gas cleaning system will help Adven to fulfil the latest emission regulations as well as reduce the overall environmental impact. Scheuch's turnkey solution consists of a dry sorption system in combination with a downstream wet scrubber. With this solution, operational costs can be reduced and the forthcoming regulation on BAT-associated emission values will be fulfilled.

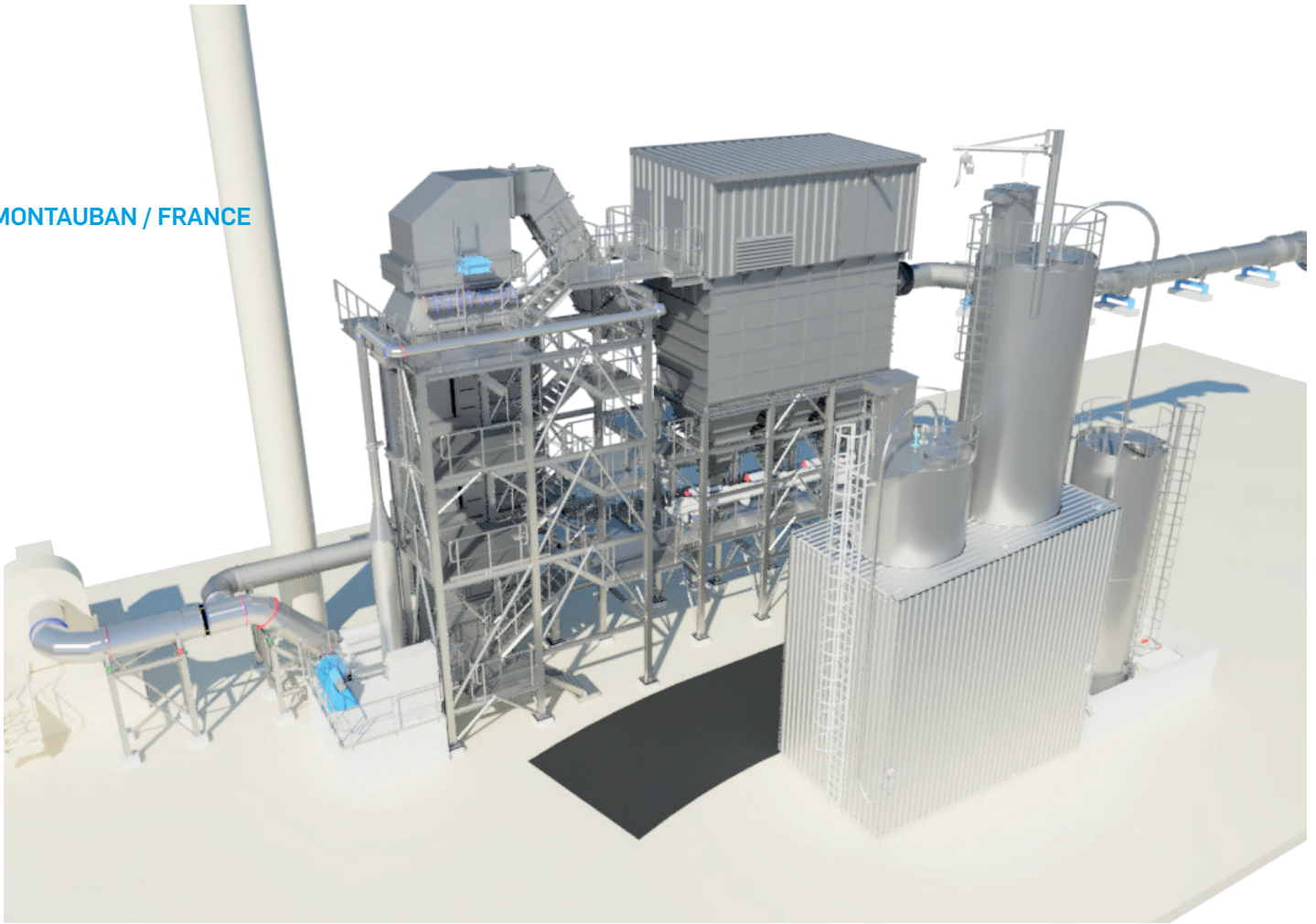
Place of installation: SE-455 33 Munkedal

Fuel: SRF (Solid recovered fuel) and waste wood

Technology: Pulse jet filter (online) with dry sorbent injection (lime/bicar + ac) and flue gas scrubber

Flue gas flow: 149.848 m³/h_{wet}

MONTAUBAN / FRANCE



Scheuch is equipping the new power plant for generating energy from household waste in Montauban, France with a flue-gas cleaning system. Scheuch is providing a dry sorption system with downstream bag filter and a tail-end selective catalytic reduction system to meet the nitrogen oxide values. In addition to the engineering and delivery of the entire flue-gas cleaning line, Scheuch is also responsible for the assembly and commissioning of this project. The first delivery took place in September 2022, and the system will be ready for operation in the spring of 2023. This solution optimizes operational costs and ensures safe compliance with all limit values.

Place of installation: FR-82000 Montauban

Fuel: Municipal waste

Technology: Pulse jet filter (online) with dry sorbent injection (bicar + ac) and SCR

Flue gas flow: 43.400 m³/h_{wet}

Customer: TREDI Saint Vulbas Ligne 2 and 3
Place of installation: FR-67000 Strasbourg
Fuel: Industrial waste
Technology: impulse-Filter (online)
Flue gas flow: $2 \times 48.500 \text{ m}^3/\text{h}_{\text{feucht}}$



Customer: IVM O.V.
Place of installation: BE-9900 Eeklo
Fuel: Household and industrial waste
Technology: Electrostatic precipitator
Flue gas flow: $2 \times 81.000 \text{ m}^3/\text{h}_{\text{wet}}$



A CLEAR PATH TO SUCCESS WITH A DYNAMIC TEAM

For decades, Scheuch has shown that it has what it takes to stay on a healthy course and achieve further growth. This includes a readiness to diversify into different industrial sectors, enabling the company to effectively navigate challenging economic times – most recently, the COVID-19 pandemic.

Scheuch has set itself an ambitious goal of extending its reputation as a quality supplier to the glass industry. All of the hot gas filtration experience that the company has accumulated in numerous other industrial sectors is more relevant than ever for the glass industry, as demonstrated by a number of projects that have already been completed successfully with well-known manufacturers. „With our many years of experience, we can provide expert support for customers in the glass industry throughout the entire manufacturing process – and these projects have given us a chance to prove that. With the founding of the glass division, we are now pooling our energy and focusing specifically on this area,“ says Andreas Köck, who leads the glass team as the Head of Sales New Applications.

NEXT-LEVEL PRODUCTS

Scheuch already has the tools it needs, solidly anchored in its DNA. Since its founding, the company has been adept at identifying customers' requirements at an early stage. „As a specialist in the field, we use our process knowledge to develop specific solutions. We already understand every aspect of the glass industry process, from the hot end to the cold end – enabling us to provide tailored products for the challenging day-to-day business,“ says Köck.

Alongside the classic application of dust separation, Scheuch offers an extensive portfolio of products for

separating NOX, SOX, and other pollutants. The company has also drawn on its many years of experience to develop venturi high 5, a next-level product for mineral wool production.

Given that further environmental requirements may come into play in the near future, new efficient technologies are in high demand. Scheuch is the perfect partner in this regard – it has the comprehensive technological expertise and can provide customers with the entire spectrum of state-of-the-art glass industry products. „We may be a new player in the glass market, but that doesn't mean we're a start-up. We have perfected our range over the years and can provide tailored products for any company,“ says Köck.

„Our aim for the future is to strengthen our position in the glass industry as a technology leader and full-service

” *In the future we want to position ourselves even more strongly as a full-service provider for filter technology in the glass industry.“*

- Andreas Köck,
Head of Sales New Applications / Glass Industry

FACTBOX:

Did you know that ...

- ... The venturi high 5 was designed to capture and clean dust generated when producing fibers for the manufacture of mineral wool
- ... Scheuch Group is the fourth-largest fan manufacturer in Europe
- ... Scheuch has successfully implemented over 1,400 electrostatic precipitators
- ... Scheuch is the only provider of all state-of-the-art technologies for exhaust gas cleaning in the glass industry



provider in the field of filter technology.“ says Andreas Köck, Head of Sales New Applications / Glass Industry.

A CLEAR AIM

The establishment of our glass team marks a new chapter for us, and, as part of that, we are striking out in new directions with regards to sales. The team is made up of specialists who are tackling this new challenge with motivation and drive. „Customers will benefit from working with an experienced company with extensive knowledge and coordinated processes – from consultation to service and after-sales. It is essential to us that our company’s value creation remains in Europe. This is partially due to the effects of the pandemic, which limited our opportunities to appear at trade fairs or visit customers on-site. At the same time, we also want to demonstrate that flexibility is one of our key strengths. We know how good we are at adapting customer solutions to the situation at hand, and now we want to show that we can adapt how we present ourselves as well,“ says Köck. We are already doing very well, and I am proud of our capable and dynamic team, who have achieved several key successes in such a short period of time. We are ready to tackle the future head-on.“ ■

THAILAND CONVERTS TO EMC TECHNOLOGY

The emc filter technology from Scheuch has revolutionized dedusting in the cement industry. The operating data from Siam Cement Group's (SCG) Khao Wong cement plant in Thailand, which was converted in 2016, also demonstrates this quite impressively. This is why SCG has now also equipped four clinker kiln systems at the Kaeng Khoi site with Scheuch's proven bag filter technology.

The size of the cement plants in Thailand is on a scale that would be hard to imagine in European locations. Despite this size, however, the experts from Scheuch successfully implemented the ESP conversion from electrostatic precipitator to bag filter, meeting SCG's every expectation. Together with SCG, Scheuch developed a concept that was perfectly tailored to the group's requirements. Naturally, it was important that local standards were also taken into account. Scheuch provided its expertise and core components, ensuring its usual high quality standards. Eco Plant Services Co. Ltd., a local subsidiary of SCG, took care of production and smooth operations on site.

THE PERFECT ESP CONVERSION CONCEPT

The Thai Scheuch branch Scheuch Asia Ltd. also supported the customer in its national language, which made cooperation much easier. Even in the era of COVID-19, customer requirements were completely fulfilled thanks to the local service teams. As such, the project was not affected by travel restrictions, which were particularly limiting for other foreign companies. "In this project, Scheuch impressed the customer with its bag filters, featuring emc technology and high fail safety, along with providing a local partner and a perfect electrostatic precipitator conversion concept. We proved that Scheuch can perfectly convert electrostatic precipitators even on such a scale," says Andreas Renetzeder, Senior Sa-



“The use of well thought-out Scheuch environmental technology makes me feel happy and proud.”

- Andreas Renetzeder, Sales Manager
Scheuch GmbH

les Manager in the Industrial minerals industry at Scheuch.

PARTICULARLY EFFICIENT CLINKER KILN SYSTEMS

Two of the four new kiln filters in Kaeng Khoi were commissioned in 2020, while the other two were made operational in 2021. The local supply of steel structures, casings and ducts reduced investment costs for the operator. To increase project efficiency even further, the existing foundations, dust hopper and filter dust transport for the electrostatic precipitator were used, as these were still in flawless technical condition. Scheuch ensured the optimal functioning and efficiency of the kiln filters themselves by using CFD simulations, meaning air flow and pressure loss were perfectly adjusted.

SOPHISTICATED ASSEMBLY CONCEPT

Every detail of the assembly concept was also perfectly planned, including installation, disassembly and a high degree of preinstallation. This well-founded concept enabled a short conversion time with a correspondingly short shut-down time for the clinker kiln system. Clinker production was brought to a standstill for just 35 calendar days. Every detail was analyzed and planned in advance. Even the use of the assembly cranes was optimized. Using cranes with a load handling capacity of around 100 tonnes reduced the number of lifts for the pre-assembled parts to just four, saving eight days in the process.

CONSISTENTLY LOW EMISSION VALUES

Existing electrostatic precipitators in Thailand need to be gradually brought up to the applicable standards for new clinker kiln systems. Scheuch's bag filter systems impressed the customer with very low emission values, reduced energy consumption and minimal maintenance requirements. The emc technology offers consistently good filtration per-



formance, even in the case of fluctuating operating parameters in the clinker production plants. This is the decisive advantage compared to electrostatic precipitators, where fluctuations in emissions cannot be avoided and where – in the worst-case scenario – electrostatic precipitators have to be shut down if carbon monoxide levels are too high. In addition, Scheuch's multi-compartment concept, where the bag filter is divided into individual chambers, ensures clinker kiln systems availability of more than 99 per cent. The dust emissions guaranteed by Scheuch can therefore also be met at all times.

SCG has been very impressed by the numerous advantages offered by bag filter technology compared to electrostatic precipitators in all the clinker kiln systems that have been converted to date. As a result, the leading Thai cement manufacturer will continue to put its trust in Scheuch for any future projects. ■

CUSTOMER SERVICE GUARANTEES YEARS OF SATISFACTION

Customers who opt for Scheuch get a reliable partner who will stay with them for the life of their system. Because at Scheuch, support that goes beyond successful commissioning.

„**R**eal sustainability begins when products remain in use for a long time. Warranty extensions are just as much a part of this as the guarantee that servicing work will always be carried out by a qualified expert. To achieve this, Scheuch offers 360-degree servicing, meaning systems continue to perform at their peak for many decades”, says Markus Mühllechner, Director of Service & After Sales.

Around 50 employees, as well as certified service partners worldwide, ensure a rapid response and expert advice directly from the producer. They also receive regular safety training in accordance with German standards. Scheuch's exacting quality and safety standards, together with a local presence, provide the best conditions for understanding customers' concerns and dealing with them quickly.

In addition to this high quality of work, understanding the customer ensures a high level of satisfaction – ultimately, this serves as the basis for a long-term partnership. “This is why our service and maintenance packages have been and will continue to be developed together with our customers, resulting in maximum effectiveness and flexibility”, explains Markus Mühllechner. Whether it's a simple service agreement or a comprehensive package where Scheuch takes care of everything, there's a wide ran-

ge of options. Scheuch's aim is always the same: to guarantee the longevity of the Scheuch products and our customers' satisfaction.

ONE NUMBER, EVERY SOLUTION

Anyone who buys a Scheuch system and has it serviced by Scheuch only needs one telephone number if they have any questions or issues. Scheuch takes care of any communication with an organization involving possible subcontractors and carrying out the agreed maintenance work.

For customers, this means more flexibility, ordering spare parts directly from the manufacturer, and shortening downtime during maintenance work. Customers also benefit from timely information on product discontinuations, which is particularly crucial in filter technology.

The filter control units are manufactured directly at Scheuch in Aurolzmünster (Upper Austria), guaranteeing availability and short delivery times. If a replacement must be made, the status of the complete filter can be checked and, if an action is needed, a package can be provided for conversion.

This means that the system is only at a standstill for as long as it is absolutely necessary. Additional travel costs are eliminated, and the system is always online. Scheuch is also the go-to contact when a long-serving filter system needs to be completely overhauled. “The rebuilt filters are comparable to a new sys-





The service provided by **Scheuch** is sustainable, responsible and forward-looking.

tem and can be relied upon to do a good job for the future. This is what real sustainability in the industry looks like”, says Markus Mühllechner.

ALWAYS UP TO DATE

With Scheuch products, it is effortless to check that the system’s servicing is up to date by looking at the service plates. The square blue plate contains essential information about the Scheuch service and is affixed to all components and switch cabinets when they are first delivered.

The plates are renewed annually and show when the next service is due. “The aim is to make the system’s life as simple as possible, for as long as possible. And if anything goes wrong, all the necessary contact details can be found on the plates, so it’s always clear who customers can turn to in the event of an emergency”, says the Director of Service & After Sales. Scheuch believes that the smoother communication and service are, the better the systems run and the faster any hurdles can be overcome. ■



A DIVERSE PRODUCT RANGE FOR ALL INDUSTRIES

Scheuch COMPONENTS GmbH was founded in 2020 and provides devices and components for a wide range of applications for almost every industry. Drawing on nearly 60 years of experience from the Scheuch Group and their associated capacity for innovation, Scheuch COMPONENTS is at the forefront of the latest trends and developments in the industry.

From radial fans and industrial valves/flaps/dampers to soundproofing, rotary valves, screw conveyors, and exhaust gas cleaning – the applications of Scheuch COMPONENTS products are virtually unlimited.

For example, radial fans are used in the simulation of airflow around motorbikes, in the environmental-

ly friendly production of bricks, and also to remove impurities from compost. The OEC odor filter produces clean air in sewage plants, farms, food production facilities, breweries, recycling companies, and other odor-prone businesses. In addition, the conveying and soundproofing products from Scheuch COMPONENTS create a clean, high-quality environment for many companies.



TUKWIND WIND CLASSIFIER REMOVES IMPURITIES AND FOREIGN SUBSTANCES

Scheuch's key priority is contributing to positive environmental development. With this in mind, Scheuch COMPONENTS worked with regional companies to develop the TUKWIND series of wind classifiers. This product makes it possible to remove impurities and foreign substances from organic waste and building materials. When cleaning sewage sludge compost, in addition to separating out small pieces of plastic, huge quantities of non-siftable cords can also be removed.

TUKWIND wind classifier

Photo: Ing. Teubel
Umwelttechnik e.U.



Die Scheuch COMPONENTS GmbH wurde als Schwesterunternehmen der Scheuch GmbH im November 2020 gegründet, um den Fokus auf das in beinahe 60 Jahren entwickelte Know-how für Geräte und Komponenten im industriellen Anlagenbau zu intensivieren.

Drawing on expertise gained over almost 60 years along with the resulting innovative capacity and financial resources, highly qualified employees and the necessary flexibility, the company is able to address topical issues such as digitalization, ecologization, sustainability and product life cycles as they arise.

Scheuch COMPONENTS GmbH was founded as a sister company of Scheuch GmbH in November 2020 in order to focus specifically on the device and component expertise gained in the field of industrial plant engineering over almost 60 years.

EFFECTIVE OEC ODOUR FILTRATION FOR A WIDE RANGE OF APPLICATIONS

Just like the TUKWIND wind classifier, the OEC odor filter from Scheuch COMPONENTS helps to ensure a particularly clean environment. At FCC Austria Abfall Service AG – which provides comprehensive waste disposal solutions for the municipal, industrial, commercial, and retail sectors as well as for domestic households.

The OEC odor filter enables an odor-neutral recycling process and reliable compliance with the legal guidelines. Despite a relatively high dust content,



OEC odor filter at FCC Austria Abfall Service AG

Scheuch COMPONENTS filters out the odors produced by shredded plastic waste without an additional dust filter using only OEC components. This ensures that the plant is extremely cost-effective during operation. Duscher Kompost GmbH also relies on effective OEC odor filtration. Despite the fact that the company produces 10,000 tons of compost every year, its neighbors and employees are protected from unpleasant odor emissions. The

plant is currently operating with a conveyed volume of 68,000 m³/h.

With the OEC odor filter, Scheuch COMPONENTS is also able to offer solutions for all types of hall systems, including custom solutions. It has worked successfully with companies like MODULAR Hallensysteme GmbH to continually improve how the hall system and extraction technology interact with each other.



Robot welding unit

Photo: KUKA AG

FULLY AUTOMATIC WELDING OF DIFFERENT COMPONENTS

A newly installed robot welding unit at Scheuch COMPONENTS masters the daily requirements of order-based just-in-time production. This innovative new acquisition enables fully automatic welding of different components in a batch size of 1 with outstanding processing quality. It also frees up personnel who can be usefully deployed on other projects.



RADIAL FAN ENSURES CLEAN OPERATING THEATRES

Scheuch COMPONENTS' dual-flow radial fan offers a wide variety of applications. At the Alfried Krupp Hospital in Essen, Germany, the fan ensures clean operating rooms. At KTM AG in Mattighofen, Austria, it is used for simulating air flows around motorcycles. And in Australia, the fan is used in ore mining.



What do operating theatres and motorbikes have in common? – A double-flow radial fan from Scheuch COMPONENTS plays a key role in both of them.

SOPHISTICATED TECHNOLOGIES ENSURE LONG-LASTING PRODUCTS

In machine and plant engineering, as in other fields, things are evolving more and more rapidly. Global competition is making product life cycles shorter and shorter. With its advanced technologies, Scheuch COMPONENTS works against this trend and offers sustainable products that meet the highest quality standards. ■

IMPRESSIVE DIMENSIONS

Impeller diameter:	3,6 m
Flow rate:	1,7 Mio m ³ /h
Pressure increase:	7.700 Pa
Motor power:	5 MW

Go to the double-flow radial fans >>>



Impeller for double-flow radial fan

SCHEUCH LIGNO ALSO SEEING SUCCESS IN THE METALWORKING SECTOR

Scheuch LIGNO continues on its successful course. Since its creation in 2015, its operating performance has more than doubled and the number of employees has grown from 90 to 160. To further drive this growth, an additional five million euros were invested in the expansion of the Mehrnbach site in 2021. In addition to excelling in the wood sector, Scheuch LIGNO has also completed numerous projects in the metalworking sector.

Within its metal processing business unit, Scheuch LIGNO provides painting systems and welding fume exhaust systems. For example, Pöttinger Landtechnik GmbH in Grieskirchen, Upper Austria, is now using a Scheuch LIGNO welding fume exhaust system to filter out the majority of fine dust particles in its production halls. Meaning, that employees are now able to work in an almost dust-free environment.

„Protecting employees means increasing the quality of working environments.“

The production facility in Grieskirchen was rebuilt and the extraction systems modernized on the basis that „protecting employees means increasing the quality of working environments“. Particular challenges and included carrying out the conversion and construction work while the plant was still in operation, dealing with small installation areas for system technology above the production areas, observing the high sound protection requirements due to surrounding workplaces, linking the existing central control technology with the extraction system, and ensuring an energy-efficient operation.

„All of the requirements that were important to us have been met by the welding fume exhaust system from Scheuch LIGNO. The fumes produced during welding are properly extracted and employees can enjoy an exceptional indoor climate“, says Christian Pfeiffer from Facility Management at Pöttinger. „The entire process of working together was an overwhelmingly positive experience. From bids and awarding of the contract all the way through to project implementation, we were completely satisfied.“

Precisely tailored painting systems

Scheuch LIGNO and e-mobility are also a perfect fit. At Traktionssysteme Austria (TSA), the Austrian air technology specialist set up two complete painting systems which are used to transport, process, coat and dry drive parts for rail and road components. All of TSA's individual requirements were implemented precisely and on schedule.

Flexible and cost-effective as a full-service provider

With a different working method, material flow and way of handling components in each case, TSA's re-





The Derix Group relies on ventilation systems from Scheuch LIGNO at its plant in Westerkappeln, Germany.

quirements for the two painting systems were based on the given work processes. „All our specifications were met in full by Scheuch LIGNO. Special requests could also be incorporated individually and flexibly into the concepts“, explains Traktionssysteme Austria production manager Danijel Cvijanovic.

Thanks to both new systems, TSA can now double its production volumes. Both complete systems consist of a paint store, spray booths, drying rooms and transport of components. Scheuch LIGNO provided everything from a single source for both systems, from preliminary project development and planning

support with the authorities to implementation on schedule.

High availability thanks to segas+ extraction system

Scheuch LIGNO has been setting standards in the wood sector for decades. Thanks to a 15,000 m² production hall with 100,000 m³ capacity, the Derix Group's X-LAM production line at the Westerkappeln site in North Rhine-Westphalia is a force to be reckoned with. The segas+ extraction system for this production line comes from Scheuch LIGNO. It impresses with its flexibility, energy efficiency and compact design. And it always ensures optimum availability while meeting the highest requirements.

"Scheuch LIGNO presented us with a highly coherent concept. We have found that it is a robust, low-maintenance extraction system with high technical

availability and low downtimes. The energy consumption has also been optimized for our requirements. With our CNC systems, it was important to us that we could work with as little dust as possible, so we wanted to have a very large extraction capacity here. And it all worked out perfectly", says Markus Derix, Managing Partner of the Derix Group.

All the advantages of a segas+ extraction system come into their own on the X-LAM production line in Westerkappeln. One high-performance fan featuring a frequency converter and negative pressure control has been installed for each machine group. This enables each machine to be operated with optimum efficiency and at its optimum extraction capacity. The different performance requirements of the machines do not pose any problems with the segas+ extraction system, as energy is always used optimally and efficiently. And it is possible for a total of up to 180,000 m³/h to be extracted.

New spray booths for perfect surfaces.



Perfect surfaces when painting and grinding

Scheuch LIGNO installed a surface finishing system with two spray booths a drying room, a preparation room, a grinding booth, and a paint store for one of the most renowned door manufacturers in Germany. The state-of-the-art system guarantees maximum availability, compliance with the specified air values and a clean working environment.

A particular challenge with this system was the very tight space restrictions, which is why Scheuch LIGNO assembled a separate story for the ventilation technology using steel construction. The two spray booths, 22,000 m³/h and 17,000 m³/h of air can be extracted via a floor pit. The air is filtered four times in the process. When the painting process is started, a sensor registers the compressed air consumption, and the system automatically builds up to the preset air volume. Once the painting process is

finished, the system automatically switches to a lower air volume.

The walls and ceilings have been fully cladded in sandwich panels. Thanks to the smooth design of these panels, dust deposits are significantly reduced – a crucial factor when it comes to achieving the perfect finish. Furthermore, this design gives the system a really sleek look. In the spray booths, surfaces can be painted to the highest quality, even in high gloss.

The temperature in the spray booths and drying rooms can be maintained at a constant temperature throughout the year, irrespective of the outside temperature. Electric glass doors shield against dust. Once the fire door is open, it can stay open thanks to holding magnets. The glass doors are easy to operate and allow for quick access. And it is just as easy to manage the settings via a touch panel on the switch cabinet that was programmed by Scheuch LIGNO. ■





NORTH AMERICA COMMITTED TO EXCELLENCE

Scheuch Business Unit North America (BU NAM) kicked off the 2021-2022 fiscal year with a 2025 strategic vision that was designed to empower the employees at CAMCORP and Schust to exceed customer expectations and grow the business. Three core business areas were identified: Dedication to Growth, Commitment to Excellence, and Strategic Collaboration. While there are many initiatives being developed for each of the core business areas, the team in North America has begun to make big changes to support a growth organization.

DEDICATION TO GROWTH: INCREASING THE PIPELINE, ORDER INTAKE, REVENUE, MARGIN, AND BRAND AWARENESS

CAMCORP spare parts team's attention to customer service has proven successful year after year. Realizing that Schust and Scheuch did not have teams dedicated to parts sourcing, CAMCORP Parts Manager Dana Dixon saw an opportunity. Centralizing all Scheuch North America's brands' spare parts ordering would grow the business by making replacement parts easier for customers to order. CAMCORP aftermarket parts team rolled out the Parts Center of Excellence program to all Scheuch North America customers. Since the CAMCORP team supplies parts to virtually every dust collection and pneumatic conveying original equipment manufacturer (OEM), this is a win-win for Scheuch North America brands

and its customers. "Our team is already seeing an increase in spare and replacement parts orders," says Dixon. "Customers have told us that they like how fast and simple ordering is." This is one more step to making BU NAM a single-source provider for all things air pollution control and pneumatic conveying.

STRATEGIC COLLABORATION: INCREASE CROSS-DEPARTMENTAL AND BUSINESS COLLABORATION AND RESEARCH AND DEVELOPMENT

The cement industry in North America continues to show growth opportunity. Schust and Scheuch have worked together on several projects, but the latest was the National Cement Company of California (NCCC) cooler upgrade project won in April 2021.

New Schust-Building,
Auburn, Indiana.



Scheuch EMC technology was deemed superior when compared to a traditional pulse-jet baghouse and Schust as the project turnkey solution provider closed the deal. The same equipment was specified by NCC at their facility in Ragland, Alabama for the new kiln line supplied by Thyssenkrupp Industrial Solution. “National Cement Company trusts that Scheuch equipment results in the lowest total cost of ownership,” says Daniel Locke, Director of Business Development, Industrial Minerals. “Which enables them to be more competitive in their markets. We could not have done it without collaboration with Austria, especially the support we got from Martin Hermandinger.”

COMMITMENT TO EXCELLENCE: REDUCE COSTS AND IMPROVE EFFICIENCIES

Prior to September 2021 Schust operated from three locations in Northeast Indiana. This made collaboration and sharing information a challenge. The Fort Wayne office staff, and two Auburn Indiana locations were brought together to a new building in Auburn. “We have been looking forward to centralizing for quite some time now,” says Keith Blair, Vice President of Technical Services. “There’s just something about having everyone together from different teams gathered around drawings to collaborate and then walk away with ideas to move a project along is something that you can’t easily do over a computer.” Manufacturing for North America has also been cen-

tralized to CAMCORP’s Willow Springs, Missouri location. The Pittsburgh, Pennsylvania office remains open in the heart of the U.S. steel industry.

The foundation of the strategic initiatives is ensuring we foster a safe environment on the jobsite or within the four walls of our offices. CAMCORP and Schust worked 365 days safely with zero time lost. The significance of this accomplishment has been monumental. “The pride you can see being displayed by everyone, is a wonderful feeling,” says Bill Heck, Safety Manager. “You can’t help but smile when you look around.” Every day we look at every policy and practice to find more effective/efficient ways to accomplish the same tasks safely.

With focus on the 2025 strategic initiatives, BU NAM continues to see the impact that comes from successful collaboration and commitment to excellence needed to grow the business.

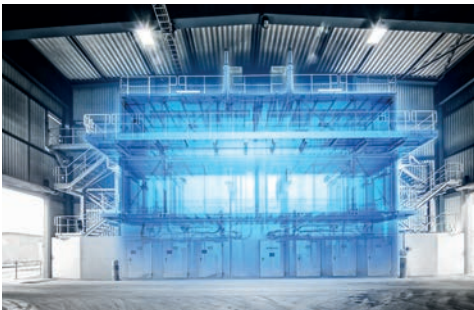


AROUND THE WORLD

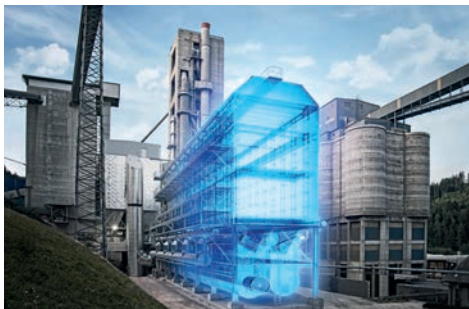
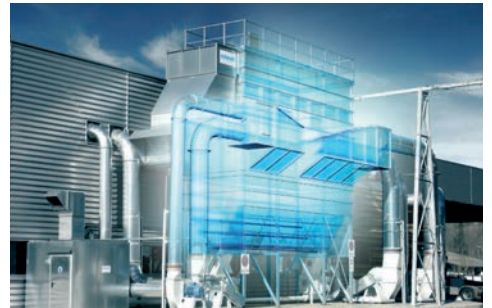
Scheuch – Global Player
with an international network



OUR SUSTAINABLE TECHNOLOGIES
ENSURE A CLEAN PLANET FOR GENERATIONS TO COME.



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