CUSTOMER MAGAZINE Scheuch Group
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scheuch
TECHNOLOGY FOR CLEAN AIR



INDUSTRY IN TRANSITION

More cost-effectiveness,
more future-proofing,
with innovative technology from Scheuch.

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Dear readers,

The industry is at a turning point. We have to find the balance between climate protection and the economic reality. High energy prices, regulation and global competitive pressure require new ways of thinking but it's exactly those that provide new opportunities. It's time to decide whether we will design the transformation or allow it to drive us.

Those who invest in innovation and efficiency today provide the basis for a stronger, cleaner industry tomorrow. It's not about forgoing things but about finding new ways for technologies that protect the environment, make processes more intelligent and rethink creation of value. Scheuch shows that this transformation is possible with technological expertise, a pioneering spirit and the proof that sustainability does not contradict cost-effectiveness.

The articles in this issue show how the future looks. Heinz Autischer provides an insight into what dealing with CO_2 may look like and which topics still have to be solved. Digitisation mastermind, Albert Ortig explains why intelligent data networking is the key to efficiency, transparency and new business models nowadays.

And finally, we'll take a look at projects that highlight what technology can do: from environmental solutions for SUEZ and IDEX, and Timberlab in the USA to complex conveyance systems with more than 60 individual solutions, precisely implemented and technically groundbreaking. Furthermore, Scheuch is working on various procedures for CO_2 separation and exhaust gas treatment. A shining example of how innovation is forging the path to a low-emission business world.

At the same time, we are investing in the future of our own locations and are also celebrating 10 years of Scheuch LIGNO, a success story full of passion, expertise and sustainable technology.

We hope that this issue inspires you and that you enjoy the numerous insights into the industry that is re-aligning itself, along with Scheuch that is helping to design this transformation.

Scheuch Group Managing Board



Thomas Eberl
CFO



Stefan Scheuch
CEO



Heinz Autischer
Co-CEO

COVERSTORY



INDUSTRY IN TRANSITION

Efficiency and sustainability as factors for success. Why clean production is the key to the future and how Scheuch is supporting companies on this path.

Hardly any sector was challenged as much in recent years as industry. High energy prices, supply bottlenecks and geopolitical tensions have changed the rule of the game: the signs are currently pointing to upheaval and setting a course for resilient, sustainable and CO_2-free production. Investments in the company's own future are more important than ever to remain competitive.

CO_2 EMISSIONS AND THE REMAINING BUDGET

According to the IPCC (Intergovernmental Panel on Climate Change), around 40 gigatons of CO_2 are emitted around the world every year. In order to limit global warming to 1.5 °C in accordance with the Paris Agreement, emissions must not increase as of now and must reduce by 43 percent by 2030. However, without further countermeasures, the remaining CO_2 budget of 130 gigatons could already be used up in the next 5 years according to data from the Intergovernmental Panel on Climate Change.

Industry is one of the key sources of emissions. In Europe, progress has already been made but pressure is increasing to further reduce emissions significantly.

CO_2 BUDGET?

The CO_2 budget describes the amount of carbon dioxide that the human race may still emit in order to limit global warming to a maximum of 1.5 degrees higher than the pre-industrial level with a probability of 50 percent. You can imagine it as a climate account: each CO_2 emission withdraws from it. Once the account is empty, the risk of exceeding the temperature limit of the Paris Agreement increases significantly.

INDUSTRY BETWEEN PRESSURE TO CHANGE AND UPHEAVAL

Climate-friendly production is not the end in itself. It is sometimes overlooked that it's not just about low-emission processes but about significant factors such as reduced use of resources and energy-optimised processes. Because energy expenses are a significant competitive factor. It is about reduced operating costs, efficiency and ultimately how competitive a company is. Process optimisation and a recycling economy become key factors for economic stability. The question is now: how do I plan a factory in a sensible way from an energy perspective? How do I design a green factory that is both economical and sustainable?

Scheuch has been assisting with modifications for environmentally friendly production for decades as a technology partner for companies who want to design their processes to be cleaner, more efficient and therefore more competitive.

THE KEY IS IN THE PROCESS

Intelligently linked system solutions are used to clean up exhaust air flows, recover heat and optimise processes holistically. Highly efficient filter systems with integrated heat recover do not just ensure improved air quality but also lower energy consumption by around 20 percent on average. Modern control systems monitor systems in real time, analyse data and adjust operating parameters automatically. This results in stable, energy-saving complete systems with low operating costs and a longer service life.

CEO Stefan Scheuch explains: „Waste heat is not waste but is actually a source of energy. If you use it correctly, you save resources and lower emissions – that pays off several times over."

SUSTAINABILITY AS A STRATEGIC BENEFIT

Sustainability is therefore no longer an add-on but a fixed part of corporate responsibility. Those who produce cleanly benefit in areas that go far beyond environmental aspects: their image, the perception of them being an attractive employer and also access to capital markets. That's because investors, banks and customers nowadays expect proven progress.

Scheuch assists companies with implementing ESG aims and converting complex sustainability requirements into concrete projects – with technologies that ensure transparency, enable traceability and are financially viable.

CFO Thomas Eberl: „Our solutions assist companies with achieving their sustainability goals measurably, combined with significant economic benefits."

FUTURE-PROOF

Numerous companies are already one step ahead and have modernised their production together with Scheuch in order to make it more economical and environmentally friendly.

A SELECTION OF IMPLEMENTED PROJECTS:

- **Energy industry, France** –
  exhaust gas cleaning system with waste heat recovery, fine dust reduction, energy savings and fewer CO_2 emissions
- **Cement industry, Baltic** –
  gas pretreatment pilot system for CO_2 separation
- **Wood industry, Austria** –
  negative pressure regulation for extraction systems: lower energy consumption
- **Energy and waste industry, Sweden** –
  flue-gas cleaning:
  heavy metal reduction,
  improved operating costs
- **Wood industry, Switzerland** –
  conveying technology systems:
  sustainable process design,
  optimised operation and quality
- **Metals industry, USA** –
  dedusting system including fresh air feed:
  higher efficiency, capacity expansion,
  healthier working conditions
- ... And many other successful solutions around the world, tailor made for the widest range of sectors.

More details are provided on the subsequent pages.

LOOKING FORWARD

The industrial transformation has become a competitive factor. Modern technologies make efficiency ascertainable and sustainability lucrative. Those who recognise the opportunities in their company can increase their potential. It‘s more than just protecting the environment. It‘s an investment in the future of their own production. Ideally long before the legal regulations require it.

The transition is not just noticeable with customers but also at Scheuch itself: 2025 was shaped by innovation, growth and technological successes.

SCHEUCH HIGHLIGHTS 2025

- Development of digital services
- New developments for CO_2 separation and its gas pretreatment
- Technology transfer between Europe and the USA
- A world's first combination in exhaust gas cleaning technology in the European cement industry
- Focus on the recycling economy and energy recovery
- Reinforcing international research cooperations



RE-THINKING INDUSTRY

Why CO_2 separation, cooperation and clear framework conditions make the difference. Interview with Heinz Autischer, Co-CEO Scheuch Group:

CO_2 separation is considered the new hope for green industry. But where do we actually stand today beyond pilot systems and political announcements?

AUTISCHER: We are further than many people think but not yet where we would have to be. The technological part is doable and there are already mature concepts in many areas. The actual gap is between separation and use or storage. If infrastructure, transport routes and legal conditions are missing, even the best system loses its purpose. It‘s just this gap that we want to close by working to make the complete process chain from separation and transport to storage or use regionally representable.

You mention missing infrastructure. Does that affect your work as a plant engineer and technology partner?

Yes, significantly. In the past, we built systems but nowadays, we develop solutions that must be part of a regional ecosystem. This means coordination with energy suppliers, potential CO_2 consumers, municipalities and authorities. Without these networks, there is no cost-effective operation. For us, this means developing partnerships and creating interfaces that make an entire system sound. This makes projects more complex but ultimately more stable.

Precleaning the exhaust gases for CO_2 separation requires precise adaptation to the relevant sector. To what extent does this affect cost-effectiveness?

Significantly. Exhaust gas pretreatment is decisive for how efficient and how cost-intensive the subsequent CO_2 separation works. The requirements in the cement industry are different to those in biomass or waste incineration. If this first step is not solved in the optimum manner, operating costs increase. We focus on standardising this complexity as much as possible. The more we can standardise, the cheaper CO_2 separation and liquefaction become. This will become the key to efficiency in the coming years.

You are working on processes that use waste heat and lower operating costs. Can that change the market?

Absolutely. Energy is decisive for whether CO_2 separation is cost-effective. Waste heat often goes unused. If we use it in a targeted manner, this reduces the energy requirement and provides the option of integrated systems into existing processes without operating costs multiplying. We are currently developing processes that enable just that.

Many companies are not just asking for technology but also planning reliability. What do you expect from politicians?

Clarity. Companies invest when they know what they can build on. When it comes to CO_2 storage, many countries, including Austria, are currently way behind and that impedes the entire value chain. Other countries have recognised that industry will not be competitive in the long term without carbon capture storage (CCS) possibilities. My plea is therefore clear: act quickly and enable separated CO_2 to also be stored legally in Austria. Any country that wants to remain an industrial country requires conditions that do not curb innovation.

Where will CO_2 separation be in ten years and what role will Scheuch play?

CO_2 separation will become a fixed part of industrial processes – not as a replacement for but as a supplement to process changes. Demand is already increasing noticeably and will continue to increase. We are investing massively in this future sector, as we are convinced that energy efficient and cost-effective solutions will be decisive. Anyone who believes that they will get by without CO_2 separation is misjudging the situation. ■



**HEINZ AUTISCHER,
CO-CEO SCHEUCH GROUP**

Heinz Autischer has been Co-CEO of Scheuch Management Holding GmbH since October 2025. Before that, he was COO and part of the management, and before that, he worked in international management functions at the ANDRITZ Group, including as Global Head Metals and Managing Director in Brazil and Germany.

INNOVATION



DECARBONISATION MEETS COST-EFFECTIVENESS

Scheuch is showing how CO_2 separation in industry works not just technically but also cost-effectively – with well thought out gas precleaning and innovative technology for tomorrow.

Industrial emissions are one of the greatest challenges on the path to climate neutrality. CO_2 plays a key role and requires a balancing act for production companies between climate protection, cost-effectiveness and regulatory pressure. For Scheuch, this challenge is an innovation driver. For more than 60 years, the family business has promoted cleaner air in industry. Today, the experts are going one decisive step further: with new technologies in the CO_2 separation area, Scheuch is setting new standards for a decarbonised future.

Scheuch is building on its decades of experience in exhaust gas cleaning and has developed various technological solutions that have the potential to improve emission-intensive sectors sustainably.

A key part of this is what‘s known as CCUS technology (Carbon Capture, Utilisation and Storage). The aim is to remove CO_2 directly from the source from exhaust gas flows efficiently, cheaply and in an industry-oriented manner. To ensure that this succeeds, Scheuch is pursuing a holistic approach: from gas precleaning and new separation processes to integration into existing industrial processes.

Three Scheuch projects are showing exactly what that looks like.

PROJECT 1: GAS PRECLEANING – THE SILENT KEY TECHNOLOGY

Before CO_2 can be separated from exhaust gases, the gas flow must be pretreated carefully – a step that is often underestimated but that is decisive for efficiency and cost-effectiveness. Harmful substances such as sulphur oxides, nitrogen oxides, heavy metals, VOCs, fine dust and aerosols do not just interrupt CO_2 separation but also increase the energy and chemical requirements, shorten the service life of the systems components and increase operating costs drastically.

> We view CO_2 separation not as a standalone measure but as part of a comprehensive transformation.
>
> Our aim is to develop technologies that enable industrial companies to be climate-friendly and, at the same time, economically successful.
>
> **– HEINZ AUTISCHER, CO-CEO SCHEUCH GROUP**

„The purer the gas, the more efficient the separation“, explains Thomas Rainer, Managing Director of Scheuch GmbH. Modern gas pretreatment dies not therefore just reduce emissions but also provides the basis for a cost-effective CO_2 separation process.

To do this, Scheuch is using a wide range of tried and tested technologies: from filters, catalysts, scrubbers and sorption procedures to systems with integrated heat recovery. The individual systems are combined and adjusted individually depending on the process conditions. This therefore provides a tailor-made solution for every customer. A current example is a pilot system for a leading cement manufacturer in the Baltic countries. There, Scheuch installed a comprehensive gas precleaning unit that removes harmful substances, treats the gas according to the carbon capture system and recovers the waste heat.

The result: a cost-optimised, ultra-clean gas flow and ideal conditions for CO_2 separation. Thomas Rainer summarises: „Gas precleaning lowers operating costs, extends the service life of the components and increases the performance of the separation system. It is the prerequisite for CO_2 separation becoming a cost-effective solution and for the separated CO_2 meeting the high quality requirements.“

> We wanted to create a system that works in industry and that is also cost-effective.
>
> **– HEINZ AUTISCHER, CO-CEO SCHEUCH GROUP**

PROJECT 2: $TACO_2$ – CO_2 SEPARATION REIMAGINED

With the $TACO_2$ project, the Scheuch Group is working on another process for separating CO_2 from flue gases. The aim is to make CO_2 separation more efficient, cheaper and usable for industrial applications. In order to enable the CO_2 to be collected, $TACO_2$ uses a special material inside the system that works like a sponge for CO_2: at low temperatures, it sucks up the CO_2 and gives off the substance again at higher temperatures. Thanks to clever internal heat distribution, energy is therefore saved, as the temperature change is used well. This lowers costs and makes the system more climate friendly.

Reusing the separated CO_2 has also been thought through: as fertiliser in greenhouse cultivation, as a protective gas in metal processing and machining and even in the food industry, there are multiple opportunities for use – depending on the location, sector, infrastructure and conditions.

PROJECT 3: AMINE GAS SCRUBBER – TRIED AND TESTED BECOMES NEW

A third project is being addressed by a tried and tested process: CO_2 separation using an amine gas scrubber. Scheuch is making use of a mature technology here and has optimised and developed it further when it comes to costs. The separation process provides ultra-pure CO_2 gas that can either be stored or be reused materially. „So that our industrial partners can get to know the technology in their own company under real conditions, we are currently offering mobile test systems on-site“, says Thomas Rainer.

The results are in: with optimised gas precleaning and clever system integration, the tried and tested principle of amine gas scrubbing can be integrated into existing systems efficiently, cost-effectively and without taking up a large amount of space.

As part of the „directCCE“ research project that is being funded by the FFG (Austrian Research Promotion Agency), an integrated system has been developed further together with the TU Wien and other partners.

The procedure is part of a larger approach: in the directCCE project, the separated CO_2 is converted electrolytically in a subsequent step into synthesis gas, a raw material for climate-neutral hydrocarbons. This turns a problematic substance into a resource and makes classic exhaust gas cleaning into a key for the recycling economy of the future.

FUTURE WITH RESPONSIBILITY

The projects show: decarbonisation is not a theoretical aim but a technologically achievable process.

For this, Scheuch is not just delivering standalone technologies but thinks in systems – from gas pretreatment to scalable CO_2 separation.

That which is an investment in the future today will become an obligation tomorrow. It‘s therefore even more important that industrial companies start to rely immediately on partners who understand processes, deliver solutions and take responsibility. That is exactly what Scheuch has made its aim – for industry that remains cost-effective and becomes more climate friendly at the same time.

> Decarbonisation only works when processes are considered holistically and integrated into practice.
> We combine technology, experience and market understanding, and make CO_2 separation usable.
>
> **– THOMAS RAINER, MANAGING DIRECTOR SCHEUCH GMBH**



Before CO_2 can be separated, the exhaust gas is cleaned thoroughly in a Scheuch gas precleaning system.



The new technology for separating CO_2 has also been nominated for the 2025 Austrian Innovation Award.



from left: Christian Bartel and Christoph Eder are delighted to come 2nd in the Upper Austrian Innovation Prize 2025 with $TACO_2$.

SCHEUCH SOLUTIONS IN USE

Whether in industry or component production – companies around the world rely on Scheuch solutions to design production efficiently, cleanly and future-proof.

The following successful Scheuch projects show: efficiency and sustainability are a clear competitive advantage.



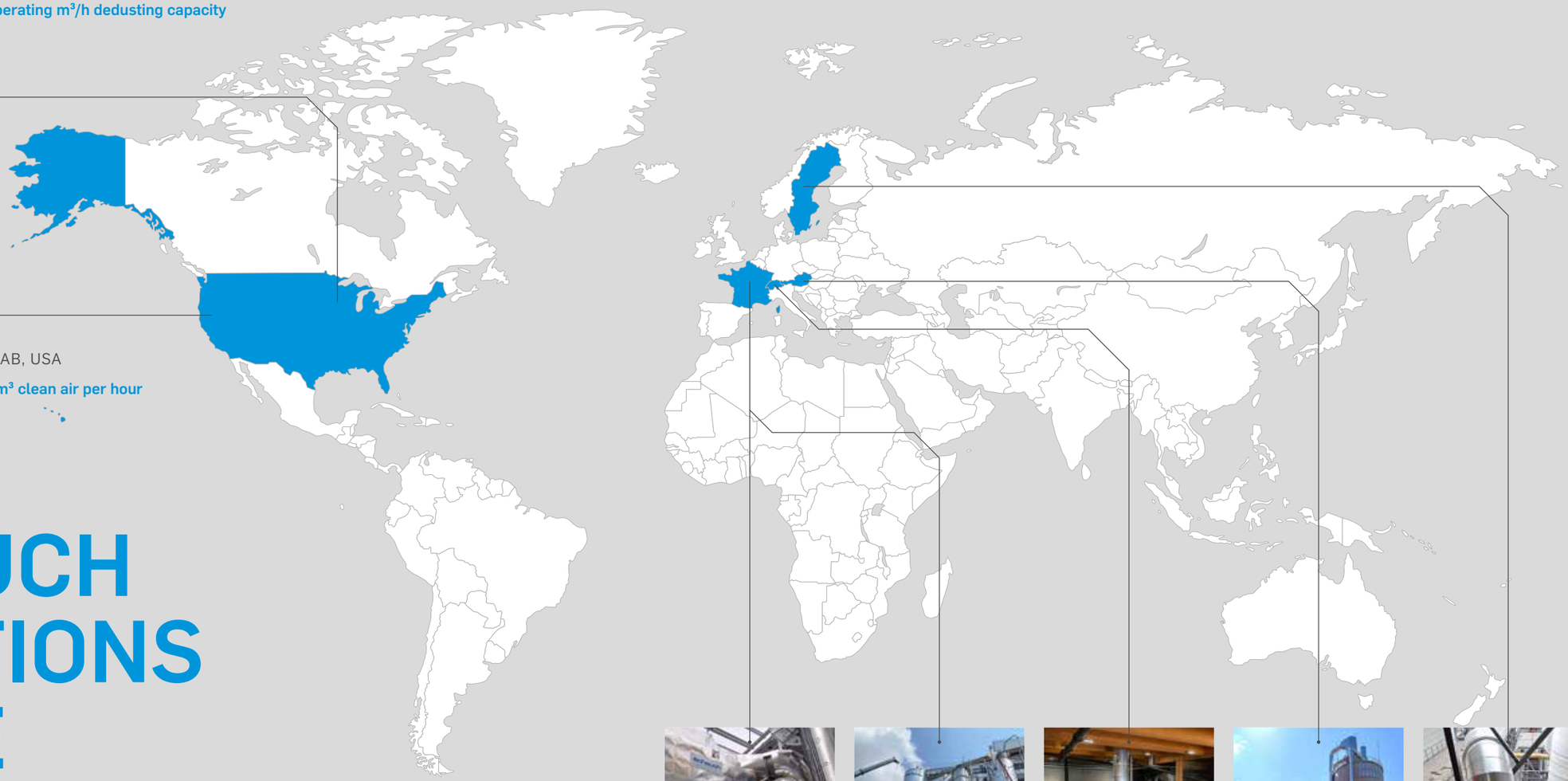
SENECA FOUNDRY INC., USA

38,000 operating m³/h dedusting capacity



TIMBERLAB, USA

340,000 m³ clean air per hour





IDEX, FRANCE

1,3 MWh energy savings



SUEZ GROUP, FRANCE

Increased overall efficiency of the plant



RESURSES SA, SWITZERLAND

CO_2 reduction and energy recovery



MAYR-MELNHOF HOLZ HOLDING AG, AUSTRIA

Maximum energy savings



HALMSTADS ENERGI OCH MILJÖ AB, SWEDEN

Efficiency improvement and emission reduction

CLEAN PERFORMANCE

A modern extraction system from Scheuch ensures clean air and efficient production in an important US wood product manufacturing facility.

One of North America‘s largest and most modern cross-laminated timber (CLT) plants is being built in Millersburg, Oregon – with technology from Scheuch. The Austrian company is supplying a customized chip extraction system that filters over 340,000 m³ of air per hour. Seven group extraction systems, two powerful filter systems and a return air system ensure clean working conditions while increasing process efficiency. An important contribution to modern, resource-saving wood processing.

SUCCESSFUL ENTRY

For Scheuch LIGNO, the project is a milestone and the largest in the USA to date. At the same time, it marks Scheuch USA‘s successful entry into the timber industry. The site in Lenexa, Kansas, has been developing tailor-made solutions for a wide range of industries for many years. With Timberlab, a rapidly growing sector in the wood market of the future is now emerging in the solid wood industry.

Photo: LEVER Architecture



Scheuch ensures clean air at Timberlab's CLT plant.

IMPRESSIVE TECHNOLOGY

The state-of-the-art Scheuch segas+ system, which was specially developed for the complex processes of the solid wood industry, is used. The system comprises seven separate group extraction systems that serve 20 different process machines. Two powerful filter systems separate the chips before the material is transported to a truck silo.

A central element of the system is a robust, pneumatic conveyor concept: all extracted material is transferred automatically to a collection container and reused externally. This not only ensures clean air but also supports sustainable material recycling. A return air system that delivers clean air to the factory hall, thereby increasing energy efficiency completes the system.

COMPLETELY FROM A SINGLE SOURCE

Scheuch took on the project as a turnkey solution from planning, design and manufacturing to commissioning on site. “We don‘t just supply individual components, but complete, well-thought-out systems. This project shows what our international team is capable of”, says Heinz Autischer, Co-CEO of the Scheuch Group.

Timberlab, a subsidiary of Swinerton Incorporated, is considered one of the most innovative suppliers in the solid wood sector in the USA. The company produces glulam and cross-laminated timber elements with a clear focus on sustainability and process optimisation.



Photo: FLOR Projects

Groundbreaking event for Timberlab's new CLT manufacturing facility.

TRUST GROWS

The fact that a plant expansion is already in the planning stage underscores the trust in Scheuch as a partner. Diane Haen, President at Scheuch USA, also sees great potential: ”Timberlab and Scheuch share the same values: innovation, quality and responsibility. We look forward to implementing many more projects together.” ■

ABOUT THE PROJECT:

Customer
Timberlab
Oregon, USA

Sector
Solid wood

Solution
7 group extraction systems
Round filter, 2 LIGNO filters
Pneumatic conveyor system

Highlight
Extraction system for 20 process machines

Environmental improvement
340,000 m³ clean air per hour
Sustainable material cycle

> The expertise of the Scheuch team and the technology convinced us right away.
>
> **– JEFFREY TUMA, MANUFACTURING EXECUTIVE TIMBERLAB**



BREATHE BETTER, POUR BETTER

How Seneca Foundry is redefining the working environment for its employees and relying on a strong team from Scheuch

A healthy working environment is more than just a hygiene factor, it is an expression of responsibility, appreciation and foresight. At Seneca Foundry, a family-run grey and ductile iron foundry in Webster City, Iowa, this aspiration became the starting point for a comprehensive technical and cultural upgrade.

The focus was on the renewal of the dedusting technology, implemented by Schust, a company based in Auburn, Indiana, which specialises in industrial air technology. Schust is part of the Scheuch Group and is responsible for planning and implementing customised solutions for the North American market within Scheuch North America.

> It was clear to us that if we were going to invest, we wanted to invest in a solution that would not only fit today but would still work tomorrow - for our employees and for the environment.
>
> – LORI MASON,
> OWNER AND CEO AT SENECA FOUNDRY INC.

In this interview, Lori Mason tells us how the project came about, why the collaboration with Scheuch was crucial and what the new system has changed in Seneca's day-to-day work.

What was the trigger for the investment in the new dedusting system?

MASON: Our top priority was to make the working environment safer and healthier for our employees. It wasn't just about fulfilling legal standards. We consciously wanted to do more and show that we take responsibility for our team and our environment.

What significance does the new system have in terms of the environment and the neighborhood?

Seneca is deeply connected to Webster City. We wanted to send a clear message that we care about the environment and our role in the community of Hamilton County. With the new system, we are not only improving the air inside the foundry but also reducing emissions to the outside. This creates trust, both internally and externally.

How has the quality of your castings changed?

The improvement was immediately visible. The surface of the parts is much smoother, and the cleaning effort is reduced. Our customers appreciate this development, and we could hardly believe that it was even better than before. The system ensures cleaner production and takes quality to a new level.

Why was modernisation considered and why were Scheuch and the Schust team chosen?

The two previous dedusting systems were past their best. They were not running efficiently, were prone to leaks and were difficult to maintain.

Schust had a deep understanding of our technical requirements right from the start and developed a customised solution. The dedusting capacity increased from 25,000 to 40,000 ACFM. This means that we can not only cover our current requirements but also lay the foundations for future growth. The new system is significantly more efficient and user-friendly. It ensures greater safety and better access to important components.

In addition, the utilisation of downstream systems has been noticeably reduced, which improves the entire production process.

How important were supposedly inconspicuous elements such as pipework or the fresh air supply during implementation?

Very important indeed. Schust redesigned the entire system - not only the main components, but also the details such as the pipework through the foundry. The fresh air supply was particularly crucial: thanks to the new feed system, fresh air reaches the exact work areas where it is needed. This makes extraction much more effective.

What advice would you like to give other foundries that are considering a new dedusting system?

A project like this presents many challenges. In our case, the complexity was high because we were not simply replacing an old system. It was about a complete reorganisation: new capacity requirements, strict emission limits, special spatial conditions in the foundry and the requirement to interrupt operations as little as possible.

Schust not only solved this technically, from planning to implementation and subsequent support, but also in human terms, with open communication, close coordination and a clear view of the big picture. This wasn't just any job; it was real collaboration. And that's what made the difference in the end. ■

LORI MASON



Owner and President/CEO of Seneca Foundry, Inc.

Lori Mason is deeply committed to preserving Seneca Foundry's identity as a family-owned business. Under her leadership, the foundry remains firmly rooted in Webster City – a commitment to the region that secures both the tradition and future of the company.

SENECA FOUNDRY, INC.

is a family owned and operated grey and ductile iron foundry located in Iowa, Webster City. It is the company's mission that all employees throughout the facility work safely, efficiently, and profitably to ensure that they are providing high value world class engineered castings and solutions to their customers. While continuing to expand its markets, Seneca increases profitability by utilising its systems and people to their fullest potential. Seneca Foundry takes pride in offering a safe, growth-oriented workplace where employees are treated with respect.

ABOUT THE PROJECT:

Customer
Seneca Foundry, Inc.
Iowa, USA

Sector
Metal

Solution
Complete dedusting system
including extraction piping and fresh air supply

Highlight
40,000 ACFM dedusting capacity

Economic success
Efficiency, capacity expansion

Environmental improvement
Healthier working conditions

EXHAUST GAS CLEANING THAT SETS STANDARDS

How technology, team spirit and timing unite on site.

„Precision, competency and reliability – these are the basis of our plants. With our project in Villers Saint-Paul, we can again demonstrate how these values are applied in practice“, says Christoph Medwed pleased, the responsible project manager at Scheuch. A complex undertaking, with challenging general requirements, was implemented with technical excellence and perfect coordination of the team.

IDEX, VILLERS-SAINT-PAUL

IDEX is constructing a third line of the existing plant for waste incineration with the production of energy (waste-to-energy) for SMDO in Villers-Saint-Paul (North of France).

This new line for high-calorific waste processes 80,000 tons per year and supplements the two already existing lines. The additional 10-MW turbine increases the system's power production and supplies households as well as a chemical plant. The project strengthens the region's autonomy to manage its waste and supports the energy transition.

SERVICE

At Scheuch, after-sales service is a fixed part of the production idea. Spare parts, maintenance, technical support – all from a single source. The aim: products that are not just delivered but that are supported for the long term. A short video shows what the service concept looks like:

A PERFECTLY IMPLEMENTED KEY PROJECT

„When we received the opportunity to be involved in the expansion of the waste utilisation plant in Villers-Saint-Paul, France, we knew immediately: This is a real key project at the centre of energy transition. It is also an opportunity to again do something great with our technology“, says the process engineer Thomas Schmid convinced.

Scheuch delivered the complete exhaust gas cleaning plant for line 3 and also retrofitted existing lines 1 and 2 with highly modern SCR technology (Selective Catalytic Reduction).

There were considerable challenges at the site, reports the project team: „The site was cramped, the time schedule was ambitious and the foundations were already present – however not according to our layouts.“ Even so, it was possible for us to precisely coordinate all work steps, from the planning and delivery up to the assembly“. Only four months passed from the signing of the contract until we started setting up the job site, which is an exceptionally short period of time during which planning, production and logistics had to be seamlessly integrated. Commissioning and assembly took place in parallel at times, so that the schedule could be respected. Today all three lines are in operation: more efficient, cleaner and ready for the future.

IMPROVEMENTS BY SCHEUCH TECHNOLOGY

The scope of work included a reactor, a bag filter with a bicar and activated charcoal system, an SCR system with ammonia water storage and dosing, ECO, ID fan, ash removal systems and silos. The turn-key project was delivered from a single source. Scheuch was also able to considerably improve the NOx reduction of the existing lines by retrofitting the SCR system.

Thanks to the Scheuch solution, emissions such as dust (max. 5 mg/Nm³ at 11 % O_2), SOx (up to 5 mg/ Nm³ at 11 % O_2), NH_3 and NOx were significantly reduced. In addition, 1.3 MW of waste heat was recovered. This increases energy efficiency, reduces CO_2 and ensures the long-term economic efficiency of the operation.

FROM A PROJECT TO A PARTNERSHIP

„With IDEX we did not only have a customer, but a partner on equal terms. From the beginning, our cooperation was constructive, open and solution-oriented. The subsequent projects that we received confirmed our claim: We deliver sustainable solutions for tomorrow's energy in a reliable and cooperative manner“, emphasises Christoph Medwed.

SOLIDARITY FOR ACHIEVING SUCCESS

„Behind every successful project there is a strong team. Planning, engineering, production and assembly were perfectly integrated. The common focus on quality and compliance with the deadline significantly contributed to its success. This project demonstrates that when technology, experience and engagement collaborate, outstanding solutions can be achieved“, says Thomas Rainer, Managing Director of Scheuch GmbH.

Scheuch's exhaust gas cleaning plant reduces emissions and saves energy.



> Only four months passed from the signing of the contract until when we started setting up the job site. Commissioning started already during assembly.
>
> – ROTARU DUMITRU, ASSEMBLER
> – JOHANN STRASSER, COMMISSIONING ENGINEERS

IDEX

Establishment: 1963 in France
Employees: more than 6,400
Core competencies: development, construction and operation of low-carbon energy infrastructures
Special characteristic: The only integrated provider in France that covers the entire energy value chain – from generation (from trash, biomass, solar, etc.) up to grid utilisation and consumption optimisation.

ABOUT THE PROJECT:

Customer
IDEX
Villers-Saint-Paul, France

Sector
Energy

Solution
Reactor, bag filter with bicar
+ HOK storage and dosing
SCR with ammonia water storage and dosing,
ECO, ID Fan, de-ashing, silo

Environmental improvement
Emission reduction
1.3 MWh energy savings



SUCCESSFULLY TRANSFORMED

The implementation of the system in Créteil required a great deal of experience.

Project log from Créteil: How Scheuch integrates flue-gas cleaning with two-stage dry sorption and SCR technology into an existing waste incineration plant. In cramped conditions, during ongoing operation and in view of energy efficiency and emission reduction.

SPRING 2021 – PREPARATION

The plan: The waste incineration plant in Créteil, France, should receive an additional boiler line, including new flue-gas cleaning. It is clear for SUEZ: the new plant must not only reduce emissions, but also optimise energy use. For Scheuch, an intensive phase of project preparation began in close coordination with the customer.

SEPTEMBER 2022 – ORDER

After about a year of preplanning, the assignment was received from SUEZ. The decision was made for compact, efficient and future-proof two-stage dry sorption with SCR catalyst (Selective Catalytic Reduction). A tail-end-SCR was used that is operated without reheating, a solution that works at very low temperatures, therefore saving energy.

The claim: a high degree of cleaning with low resource requirements and optimal integration in the existing buildings.

AUTUMN 2022 – DETAILED PLANNING

The technical objective: the new line must be implemented during ongoing operation. The space is limited, freedom of movement is restricted. The installation area for the new flue-gas cleaning must be created by disassembling the existing handling line. There are no classic work-site logistics, rather a complex sequence: deliver, introduce, interconnect the material in the necessary order – with the precisely specified timing.

The planning must be finalised. Up to the additive conveyor line, that crosses multiple levels through the existing flue-gas cleaning. Also the already available systems were in part taken over and expanded.

SUMMER 2024 – SET-UP PHASE

The components were delivered and, with the help of a special crane, brought into the building. A residue silo for intermediate storage, a 900 kW ID fan, the system for dosing the ammonia water – everything had to be precisely positioned and safely accessible. The ash is discharged pneumatically, supplemented through recirculation, in order to make optimal use of the sorbent. In spite of logistical limitations, such as the Olympic Games in Paris, assembly went according to plan.

AUTUMN 2025 – COMMISSIONING

The new flue-gas cleaning is connected to the grid – reliable and efficient. The current emission limit values will be securely observed, sorbent consumption is reduced. Due to the low outlet temperature of the boiler, more energy from the process can be used. This noticeably increases overall plant efficiency.

There are two considerable advantages for the operating company: fewer resources, such as for sorption or catalyst treatment, and at the same time more usable heat. Plant operation is therefore not only cleaner, but also more cost-efficient. A clear advantage for on-going operation - both technically and financially.

TODAY – A SITE WITH PERSPECTIVE

The project in Créteil shows what is possible with close coordination, technical precision and reliable implementation. The new plant does not only fulfil the highest environmental requirements, it also reinforces the economic efficiency of operations.

The site is being expanded further: one of France's largest green hydrogen production plants is being developed directly next to the plant, fed with energy from waste incineration. The new flue-gas cleaning is therefore not only part of efficient plant operation, it is also part of a regional energy transition. ■

THE SUEZ PROJECT IN VALO'MARNE

The waste incineration plant in Créteil is operated by the French environmental service provider SUEZ on behalf of the SMITDUVM association. It supplies 19 communities in Département Val-de-Marne with current and heat – about half of which from renewable energy. The plant is part of a regional concept for sustainable energy generation from waste and is continuously modernised.

Within a period of five years, waste incineration was converted from wet to dry exhaust gas treatment plants, and expanded with an additional kiln line. The flue-gas cleaning of the larger line 3 was implement with Scheuch.

ABOUT THE PROJECT:

Customer
SUEZ Group, Valo'Marne SAS
Créteil, France

Sector
Energy

Solution
2-stage dry sorption with recirculation and low-temperature SCR

Highlight
Fewer resources, more usable heat

Contribution to the climate/environmental protection
Increased overall efficiency of the plant
Cleaner waste incineration



> The particular aspect was not the complexity of the general requirements, rather the way in which we solved the project.
>
> – CLEMENS VOGLHUBER, PROCESS ENGINEER, SCHEUCH

SUEZ's waste incineration plant is well equipped for a clean future thanks to Scheuch's environmental technology.

QUICKLY IMPLEMENTED - EFFECTIVE IN THE LONG-TERM

The new Scheuch filter system at Halmstads Energi och Miljö was installed in a short time – with long-term benefits for the environment and operations.

In Halmstad, a coastal city in western Sweden, Scheuch successfully completed a complex conversion project in just six weeks. The client, Halmstads Energi och Miljö AB, operates a waste-to-energy (WTE) plant that, through a targeted upgrade of its filter technology, not only meets current and future environmental regulations but also increases its operational efficiency.

EFFICIENTLY RENEWED

After an impressive 24 years of operation, it was time to replace the Scheuch fabric filter with a new solution. The new system now has a larger filter area and completely redesigned piping. The main reason for the modernisation: significantly improved removal of heavy metals and dioxins. Thanks to the optimised filtration, the downstream flue gas scrubbing and water treatment also benefit from improved conditions – a clear technical advance with significant effects.

DOUBLE BENEFIT

The upgrade pays off twice for the customer: The flue gas cleaning system now reliably meets the strict requirements of the environmental permit regarding heavy metals, while simultaneously optimising operating costs in the scrubber system. This combination of environmental protection and cost-effectiveness was crucial to the project's success.

MINIMAL DOWNTIME AND MAXIMUM COLLABORATION

The biggest challenge? Time. Only six weeks remained for dismantling, installation, insulation, and commissioning, a tight window for a project of this magnitude. The timeline was clearly defined in the customer request. No buffer, no delays. Scheuch tackled this challenging task with conviction and was awarded the contract.

Months before construction began, 3D models were created, assembly processes simulated, and details coordinated with the customer. A total of around 45 specialists from Scheuch and its subcontractors worked on the implementation throughout the project, supplemented by approximately 35 employees on the customer side. In total, a team of 80 people.

> The collaboration with Scheuch was totally professional. Despite the tight time frame, everything went smoothly according to plan. The results speak for themselves.
>
> – HENRIK SAMUELSSON, PROJECT MANAGER, HALMSTADS ENERGI OCH MILJÖ AB

ABOUT THE PROJECT:

Customer
Halmstads Energi och Miljö AB
Halmstad, Sweden

Sector
Energy

Solution
Bag filter conversion with upgraded sorbent dosing and ash system
Complete duct solution

Highlight
Short installation time
Inside existing building
Less sorbent and energy consumption

Environmental improvement
Lower emissions and a more efficient flue gas cleaning



Scheuch also took on the entire piping system.



The Scheuch solution was implemented in the existing building.

Work on site continued around the clock. Coordination took place remotely and directly at the plant in Halmstad, always with the goal of making the most of every hour. The result: a successful conversion during ongoing plant operation, on schedule, and without compromising on quality.

COMPLETE MODERNISATION IN THE NEAR FUTURE

The success story is set to continue: Two additional combustion lines at the Halmstad plant are already on the list for possible modernisation, planned for 2026 or 2027. The foundation for a long-term collaboration has been laid.

With this project, Scheuch once again demonstrates that experience, technical innovation, and a keen sense of customer needs are an effective combination – for clean air and efficiency. ■



Halmstads Energi och Miljö AB in Sweden

> Only through the perfect collaboration between the two project teams from Halmstads Energi och Miljö and Scheuch could this demanding challenge be overcome.
>
> – STEFAN BACHMAYER, PROJECT MANAGER, SCHEUCH

HALMSTADS ENERGI OCH MILJÖ (HEM)

Halmstads Energi och Miljö is the leading energy and waste management company in Halmstad, Sweden. Since its founding on November 1, 2006, HEM has reliably supplied businesses and households with electricity, heating, cooling, energy services and waste management. The company is wholly owned by the municipality of Halmstad. A portion of its profits flows directly back into the city, thus benefiting its residents.

HIGH-TECH IN A SUPERLATIVE FACTORY

In its high-tech plywood board factory in Leoben, Mayr-Melnhof Holz is using innovative, tailor-made extraction technology from Scheuch LIGNO – for the highest levels of availability, energy efficiency and operational safety.

At the production location in Leoben with a surface area of around 33,000 square metres, one of the most modern factories for plywood boards in the world has been developed, equipped with the most modern wood machining technology, highly developed automation, well thought our logistics and enormous production capacity. More than 175 million euro was invested, the largest single investment in the history of the long-standing company. At full capacity, the factory will produce up to 130,000 m³ of plywood boards per year.

A significant part of this large project is the powerful extraction and conveying technology that Scheuch LIGNO supplied and installed. Three segas+ extraction systems with a total capacity of 370,000 m³/h ensure clean air and smooth operation when producing plywood boards. A fourth system of 175,000 m³/h is used for the connected high-performance planing mill. The extracted chips are conveyed away efficiently using two medium-pressure conveying systems with a total length of 1.3 kilometres. One of these runs 450 metres to the intermediate silo for the planing mill, the other runs a further 850 metres to the pellet silo.



The entire extraction system in the largest plywood board factory in Europe comes from Scheuch.

TECHNOLOGY THAT THINKS

What appears to be purely plant engineering at first glance is in reality engineering skill. Each extraction group in the factory is planned individually and equipped with precisely tailored fans in order to only use energy where it is really required. The systems have modern negative pressure regulators, technology that Scheuch LIGNO first established with large group extraction systems. This measures the pressure directly on the machine and uses a frequency converter to regulate it as required. This ensures constant output regardless of the filter condition and significantly saves energy.

„With this project, we had clear requirements including regarding soundproofing, energy efficiency and spare capacity for later expansion“, explained Ing. Markus Thier, BSc., factory manager for plywood boards at Mayr-Melnhof Holz. „In the planning phase, we worked together with Scheuch LIGNO to develop suitable solutions that also impress during operation.“

RELIABILITY COUNTS

For a project of this magnitude, it‘s not just strong products that are decisive but especially reliable partners. „Extraction was part of the overall project but a key one“, said Thier. „And it‘s also really important to be able to rely on fast assistance, competent advice and flexible further developments even after commissioning. We have a long history of good cooperation with Scheuch LIGNO. If there were any challenges during the project, we worked on solutions together at eye level.“

The technology used also impresses when it comes to safety: all extraction systems are equipped with modern fire extinguishing systems and controlled by switch cabinets from Scheuch LIGNO. The cleaned air is returned to the building via axial fans. The return air system can be configured flexibly and can provide fresh air, return air, or a mixture of both. This further contributes to energy efficiency.

CONVEYANCE OVER LONG DISTANCES

A highlight of the system is the clever material conveyance system. Two medium-pressure conveying systems move several tonnes of chips each day over distances of up to 850 metres. This is made possible by robust, low-wear technology: flow-optimised, thick-walled steel pipes, powerful fans, T-injectors for material acceleration and resistant rotary valves ensure consistently reliable operation.

Particularly when it comes to high discharge rates and long distances, MP conveying systems are economically sound. They work according to the indirect conveyance principle in which the fan is upstream of the material feed unit – ideal for stable processes with low energy use.

SUCCESS THROUGH EXPERIENCE

The segas+ extraction systems that are used are based on the expertise of several hundred implemented projects and were developed especially for use in the solid wood industry. They are designed for continuous operation, large material quantities and high machining speeds. The result: maximum availability and efficient processes in daily work.

Mayr-Melnhof Holz is one of the leading companies in European wood machining nowadays and is setting new sustainable standards for building with wood with its new plywood boards. It‘s no coincidence that they rely on Scheuch LIGNO‘s expertise. Technological excellence and a partnership of cooperation combine here and produce a result that can be seen. ■

ABOUT THE PROJECT:

Customer
Mayr-Melnhof Holz Holding AG
Leoben, Austria

Sector
Solid wood

Solution
4 segas+ extraction systems
2 medium-pressure conveying systems

Highlight
Group extraction system
with negative pressure regulator
The highest availability and efficient processes

Environmental improvement
Maximum energy savings



Foto: Resurses SA

The modern Resurses wood processing centre increases regional wood value creation in Graubünden.

THE MOTOR BEHIND THE GREEN CIRCUIT

Resurses SA moves waste materials using conveying technology from Scheuch and therefore combines climate protection, energy production and economic success.

Obtaining energy from agricultural waste materials and simultaneously helping the climate – what sounds like a vision is common practice at Resurses SA in Switzerland. The company converts bark, wood chips and sawdust into heat, power and high quality biochar. The processes save CO_2, generate CO_2 certificates and show how the recycling economy actually works in reality.

To ensure that this combination runs smoothly, Scheuch provides the necessary drive with reliable conveying technology.

60 CONVEYANCE SOLUTIONS FOR ONE SYSTEM

Together with Heim AG (heating technology) and Inkoh AG (system operation), Scheuch has implemented a continuous conveyance system with 60 conveyance products. It covers all four central process steps starting with bark removal, on to fuel treatment and pelletising to producing the biochar.

What appears easy is highly complex in practice. The widest range of materials from dusty sawdust and damp wood chips to abrasive biochar must be conveyed safely, efficiently and at exactly the right dosage. Even small faults would have a direct influence on the entire circuit.

CONSTANT QUALITY AND OPTIMISED PROCESSES

The Scheuch systems are tailored to these challenges. They ensure even hopper filling, energy efficient drying, low-dust discharge and precise filling of big bags with biochar. This does not just ensure product quality but also optimises operation completely.

The push floor drier with integrated post-drying and sieving is a particular highlight. This has been specially designed for the requirements of the pyrolysis processes and ensures constant fuel quality, an important prerequisite for heat production in a combined heat and power plant.



MEASURABLE ADDED VALUE FOR THE ENVIRONMENT AND THE ECONOMY

The benefit is clear: reducing emissions, waste substances are recycled completely and tradable CO_2 certificates are also formed. At the same time, efficiency along the entire conveying path is improved.

The project at Resurses SA therefore shows that modern environmental technology and economic success are not a contradiction. Resurses SA is a pioneer in the sector and a role model for other companies that want to make their processes more sustainable.

IMPRESSED

„In order that this closed circuit runs reliably, we need a partner that understands our processes and supplies technology that just works“, says Urs Hefti, factory manager at Resurses SA. And Scheuch delivered: the system runs stably, the quality of the biochar is high and even future scaling up is safeguarded by the technology. „With the components from Scheuch, we have found a solution than enables material to be conveyed from A to B fully automatically.“

MOTOR FOR UPCOMING PROJECTS

The project at Resurses SA is not a one-off. Wherever waste substances are to be used sensibly, emissions are to be reduced and material circuits closed, intelligent conveying technology is a core component. Where the recycling economy becomes a reality, Scheuch supplies the solution. ■



Alexander Peemöller (Scheuch COMPONENTS) talking to the project partners, Martin Schrag (Heim AG, right) and Urs Hefti (Resurses SA, left).

> Scheuch's conveying technology handles the entire value stream flow of waste wood and is therefore essential for the smooth operation of Resurses.
>
> **– MARTIN SCHRAG, PROJECT MANAGER AND HEAD OF SALES HEIM AG**

ABOUT THE PROJECT:

Customer
End customer: Resurses SA
(initial factory of the Uffer Group)
Savogning, Switzerland
Partners: Heim AG (project planning and heating technology), Inkoh AG (system operation)

Sector
Wood processing

Solution
Conveying technology at 4 process levels (Transport of bark, wood chips, sawdust, wood shavings; pelletising, big bag filling)

Highlight
Approx. 60 conveyance components

Environmental improvement
Energy recovery
CO_2 certificates
Independent operation

MORE INFORMATION
on our website

1.440
Employees
around the world

302
Turnover
in million euro
(FY 2024/25)

20 %
Energy savings
through filter systems
with heat recovery
(average/system)

25
Heat recovery systems
implemented
(FY 2024/25)

Versatile technical
solutions to reduce
emissions

FIGURES

FACTS AND FIGURES

~252,000
MWh
Energy saved through heat recovery
with ERCS (Energy Revcovery
& Cleaning Systems)
(FY 2024/25)

=

~2.3 months
supply for the
city of Salzburg
(1,300 GWh thermal energy
consumption per year)

10 YEARS OF SCHEUCH LIGNO

A decade of innovation, responsibility and clean air for industry and trade



Over a production surface area of more than 4000 m², solutions that are in use all around the world are being produced today.

MILESTONES

2015 Founding of Scheuch LIGNO GmbH
Ground breaking ceremony for the new building in Mehrnbach

2016 New product generation for surface coating in the wood sector

Product expansion deduster with various discharge variants changes the trade market segment

2018 Expansion of surface technology for metal coating

2020 New product generation for welding fume extraction with the W3-seal of quality

2021 Location expansion in Mehrnbach

2024 Large order in the paper sector

2025 All renowned plywood board factories have been equipped by Scheuch

Award from the Holzkurier trade magazine

VOICES FROM THE MARKET

Congratulations on your anniversary! We have a strong partnership with Scheuch LIGNO – from which it's not just our new CLT factory that benefits.

BEST WOOD SCHNEIDER GMBH / HOLZWERK GEBR. SCHNEIDER GMBH, GERMANY

We're looking back on many years of successful cooperation with Scheuch LIGNO, which have been characterised by reliability, trust and professional support.

MAYR-MELNHOF HOLZ REUTHE GMBH, AUSTRIA

When the proximity to the sector becomes the driving force, new paths are forged. Just like in 2015 with the founding of Scheuch LIGNO. From the former „Wood" sales division, an independent company was formed in Mehrnbach – not for organisational reasons but due to conviction: to be able to support trade and industry companies more directly, flexibly and in a solution-oriented manner. With this step, we laid the foundation for specialising in production companies that process and machine a wide range of materials. For 10 years, Scheuch LIGNO has been focussing completely on its customers' requirements and guarantees the best and most economical solution. Success has proven the company right. Nowadays, Scheuch LIGNO is much more than a provider of extraction systems and is considered a reliable partner for the wood industry and a technological leader.

CONTINUOUS GROWTH

What started as a local focus has established itself across regions quickly. From carpentry firms and plywood board factories to large furniture manufacturers. Nowadays, Scheuch LIGNO is impressing customers in the German-speaking regions and beyond.

The key to success? A deep understanding of sector-specific processes combined with modular, robust systems and produced with the highest quality requirements. Other sectors such as metal machining or plastics technology and many more are also benefitting from this expertise these days.

COMPREHENSIVE RANGE

Today, the range comprises extraction and dedusting systems, conveying and surface technology, heat recovery, fire and explosion protection, and smart control systems. The retrofit offering is particularly popular. Here, existing systems are modernised and brought up to date for improved power, a longer service life and higher efficiency.

MANAGED WITH FORESIGHT

Even in challenging times, we remain on course: technological development, internationalisation and customer focus. „We want to further strengthen the market in the German-speaking region and, at the same time, grow internationally, particularly in North America and Europe", says Alois Burgstaller, Managing Director of Scheuch LIGNO.

The next ten years? They've already started. With a strong team and a clear vision, we stand for reliable production with maximum availability. ■



Our roots are in the wood processing industry. Together with the sector, we have grown continuously. Nowadays, we use this expertise in processing and machining a wide range of materials and always supply the most economical solution for our customers.

– ALOIS BURGSTALLER, MANAGING DIRECTOR, SCHEUCH LIGNO GMBH

PRODUCING THE FUTURE

A tour of the production halls and a look at Scheuch's digital future.

Concrete foundations, measurement displays, robot-controlled weld seams. There's a lot going on at the moment at Scheuch. If you walk through the production halls today, you can tell that it's not just work going on here but building the future. Each investment, each conversion and each new system contributes to one aim: production that builds on the tried and tested and that develops continuously – more efficient, more flexible, safer, more digital – and the same applies as always: quality on which you can rely and the greatest focus on occupational health and safety remain the benchmark.

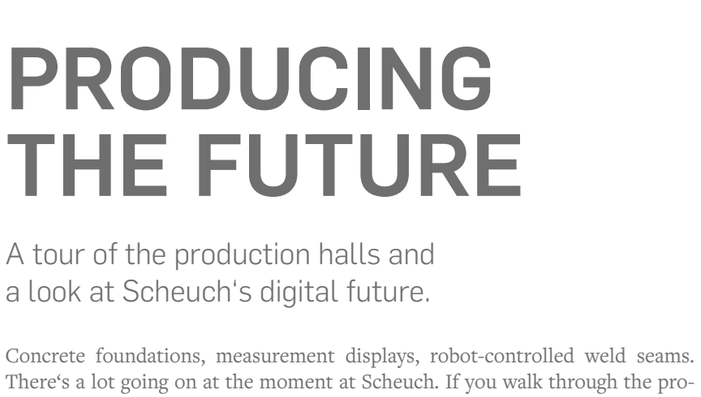
A SYSTEM IN MOTION

Production at Scheuch does not think in locations but rather in terms of interaction. Processes intertwine across borders and competencies supplement each other in a targeted way. In this system, Slovakia is growing to become a supporting pillar. A tour through the production facilities in the headquarters in Aurolzmünster gives an example of how the system is developing:



TEST BENCH CENTRE 01

Our tour begins in the flying roof hall in Aurolzmünster. Where components used to be stored is now a high-tech measurement centre. Here, fans are tested on two levels: on the noise test bench, the special room acoustics supply precise data on noise behaviour while the performance and characteristic curve test bench records the pressure, flow rate and power consumption under constant conditions and according to standards. The result: precise data that proves how efficiently a fan works and how it behaves in real system operation. All analyses flow directly into product development for higher quality, less noise and satisfied customers.



BRANCH: SLOVAKIA

In Slovakia, an ultra-modern production location is being developed, which has already taken on a central role in the group with around 200,000 production hours. By 2030, it should be more than 250,000 sein. Expansion and digital networking are already going at full speed. In autumn 2025, a new additional production hall was inaugurated. The concept: economically strong, technologically equipped, strategically integrated into the entire system in the Scheuch Group.

> With the expansion in Prievidza, we are providing urgently needed capacities in order to overcome the increasing order volume. At the same time, we are committing to our headquarters in Aurolzmünster, where we are also investing consistently in new production technologies and training.
>
> **– STEFAN SCHEUCH, CEO SCHEUCH GROUP**



Ceremonial location expansion in 2025 in Prievidza, SK



ROBOT WELDING 02

One hall on, a robot with 7 axes welds various components. At the same time, a second, tailor-made robot system is being prepared especially for large impellers. Automation is used here to stabilise processes. Not as the end in itself but as a response to real challenges such as the lack of specialists and the increased requirements for precision and competitiveness.



TURNING SHOP 03

In the turning shop, the new Weiler lathe with impressive precision has been running since autumn 2025. It can be used to machine casings and rotors with diameters of up to 1,300 mm, as well as drive shafts with lengths of up to 4.5 m. The investment does not just expand production capacity significantly but also makes Scheuch more independent and flexible in this area. A clear gain for the entire product range.

VIDEO

Insight into production



FUTURE WORKSHOP 04

At this location, the future starts with apprenticeships. In the expanded apprenticeship workshop at the headquarters, apprentices learn on modern equipment including a new press brake. 300 m² space of which 50 m² has been newly developed – enough space for training, practice and prospects. We don't just train here, we shape the future.

PRODUCTION DEVELOPED FURTHER 05

This tour only presents a small part of the developments. However, what it shows is that Scheuch does not just plan for the present but also looks to what is coming. Automation, digitisation, location development, all of these are not trends but strategic tools to safeguard the future.

NEW IN PRODUCTION IN AUROLZMÜNSTER

Implemented

- Annealing furnace for heat-treated components
- Weiler lathe for large components
- 7-axis robot system for automated welding
- Press brake in the apprenticeship workshop
- Expansion of the apprenticeship workshop by 50 m²
- Characteristic curve and noise test benches
- Scanner app for production processes
- Digital production workstations
- Intralogistics improvements
- Automated edging programs
- Robot for the turning shop
- Digital test log for rotary valves
- Programmable round bending machine

In development

- Optimised welding robot
- Optimised pressure vessel production
- Nozzle production for impellers and special components

SLOVAKIA

- By 2030: Expansion of the production area in Slovakia to 12,650 m²

DIGITISATION

HOW PROCESSES BECOME MORE INTELLIGENT

From artificial intelligence, new thinking and real progress in plant engineering.

A system that gives an early indication of when a filter change is due. A digital assistant that calculates the most suitable plant configuration from thousands of items of project data in seconds. And a smart service bot that knows the history of a machine from first operation to the last update. That which seems to be futuristic is already being tested or is reality at Scheuch.

Artificial intelligence is not a trend but a game changer. And as with every change, it‘s not just about technology but also about the mindset. That‘s because AI models change how decisions are made, how teams work together and how knowledge is circulated. Particularly in machinery and plant engineering, where processes are complex and data volumes are large, AI does not just speed things up but also opens new perspectives.

CHANGING INSTEAD OF USING

AI systems do not work on their own. Before an algorithm can decide anything, it needs data, clear aims and reliable structures. This is therefore the greatest challenge: processes must be rethought, data maintained actively and people empowered to work with these systems. AI is not plug and play, it is a strategic tool. It requires an environment that is ready to join in. The challenge is not the technology but the combination of organisation, process understanding and willingness to change.

It‘s clear: it is no longer a question of whether AI will be used but rather how. Many companies are no longer relying on „bleeding edge“, i.e. having the latest and greatest at any price but rather on „leading edge“, the right tool for the concrete application. Not everything that is technically possible is also useful. The decisive factor is whether it adds real value.

AI IS GAINING TRACTION – PRACTICAL EXAMPLES AT SCHEUCH

How this targeted use may look is shown by the current status at Scheuch. AI-supported systems are being developed and introduced in several areas, always with the requirement of reducing complexity, saving time and activating knowledge.



Teamwork: an image of the digitisation contribution for Scheuch developed by people and artificial intelligence.

PROCESS DESIGNER

Plant engineering contains the knowledge of many years, from calculations and flow rates to practical empirical values. The Process Designer‘s aim is to make this expertise available digitally. The tool uses procedural knowledge and product logic to supply an intelligent solution: in seconds, it can calculate which systems and connections fit the task optimally, checks emission limits automatically and enables real-time adjustment. It therefore supports specialists precisely where many tables, a great deal of coordination and much experience were required. Decisions remain made by people but they become faster, more precise and more transparent.

In conjunction with other programs / software, this provides a real innovation jump. While the Process Designer maps the procedures, a product management software ensures that the product logic is correct, which components can be combined and which rules apply. An agent-based AI system keeps both worlds connected to each other. The digital agents link data, detect patterns and can even drive suggestions.

Thanks to the open interfaces, the tool can also be linked to other systems such as sales or planning tools. There would also be the possibility of integrating an AI function that supports new employees by learning from the data that was made accessible and being able to refer to this.

This therefore results in an adaptive system that does not replace knowledge but makes it usable. It unburdens teams in their daily work, speeds up development processes and provides space for what makes Scheuch different: technical ability, quality and innovation designed by people and supported by data-based intelligence.

AFTER SALES BOT

In the customer service area, the After Sales Knowledge Bot, a digital assistant, demonstrates how AI can make information useful. Instead of fighting your way through documentation or system histories, the system will answer questions in seconds in the future, such as: Which components have been replaced? What abnormalities have occurred since commissioning? Where are there recurring

potentials for improvement? Initial tests prove: its usefulness is within reach but it needs structured data so that the AI can recognise patterns and provide targeted support. This is the only way in which the team gains time for what really counts: the customer.

PULSEMASTER2.0 CONTROL UNIT

The possibilities can also be seen in the control technology area. The PulseMaster2.0 control unit already combines functions such as remote maintenance and anticipatory maintenance.

The new control unit communicates directly with the service team. The device knows itself and its filters, continuously analyses all relevant data and detects possible faults before they occur. It provides information in good time about required maintenance, such as when a bag change is due.

Operation is particularly convenient: via mobile end devices, but optionally also via a touch panel or directly on the device. An integrated wizard supports the user, analyses the control unit and makes settings automatically.

In the medium-term, further functions will not just speed up maintenance and commissioning, but contribute actively to filter optimisation and detecting anomalies in good time. The prerequisite always remains that the customer consents to releasing the data. A sensitive but necessary step that requires trust and forms the basis for all digitisation.



AI is not treated as a short-term trend
at Scheuch but rather as a targeted tool
that enables real solutions – but only when processes
and data are also considered at the same time.
It is not enough to just introduce technology.
We must be ready to question procedures
and to think in new ways.

– ANJA RÖGL-BRUNNER,
DEPUTY DIRECTOR GROUP IT AND DIGITALISATION

TECHNOLOGY WITH MINDSET

Trade events and trade fairs on the subject of „Digital solutions for machinery and plant engineering“ also clearly show that AI is no longer a topic for the future. It is involved in projects, products and day to day work. What we have learned from practice:

- AI models must have a concrete use, otherwise they are not accepted.
- Demographic change increases the pressure to safeguard knowledge in the long term.
- Agentic AI, i.e systems that contribute actively are already in productive use.
- Nothing works without clean data. It‘s not just the fuel but the soil from which everything grows.

AI does not just bring new tools but also new questions. How do you build trust in automated systems? How transparent do decisions have to be? Which tasks remain completed by humans and how do their roles change?

The answers to these questions are not found in a lab at Scheuch but during real operation. In teams that try things out instead of theorising. In organisations that allow mistakes in order to learn from them. In companies that do not consider AI a project but rather a new way of working.

Ultimately, it is not technical progress alone that is decisive for success, but rather the ability to place it within a sensible organisational framework. New roles such as data translators, an understanding of data quality and a cultural shift towards more openness and a willingness to learn are decisive. Technology is not the end in itself – it must suit the person, the process and the purpose.

If you know what you want to achieve, you can use AI in a targeted way and really add value. That‘s exactly what we are doing. Our products and processes are becoming more intelligent. That‘s how the industry of tomorrow is developed today.

– HEINZ AUTISCHER,
CO-CEO SCHEUCH GROUP

FOUR QUESTIONS TO ALBERT ORTIG

How will AI change the role of companies in the future?

AI changes value creation by automating processes, making decisions data-driven and enabling new business models. Value is created less by efficiency alone but rather through the capability of combining knowledge, data and customer experiences intelligently.

What in particular is coming in the next development phase of AI?

The next development phase of AI is industrialising this technology and therefore integrating its use into production processes, management and sales. It really depends on how you use and apply AI services for real scale effects.

How can Europe hold its own in global AI competition?

By playing to our strengths in Europe. That‘s not the user-driven platforms but rather the industrial hidden champions with the highest level of domain expertise. Instead of ever-growing, extremely expensive model developments, we can capitalise on highly energy efficient and (cloud-)independent AI models with existing expertise.

And what should companies do today to be ready for tomorrow?

Work tirelessly, do not wait, get data under control and investigate and implement AI-driven value levers along the entire value chain. And, when doing so, prepare your entire team for the new way of providing services, and support them in this.



Photo: Netural

ALBERT ORTIG

Entrepreneur, digital strategist and AI mastermind in an industrial context

Albert Ortig is the founder and managing director of the digital service provider, Netural in Linz. He has been accompanying companies on their digital transformation for more than 25 years – focussing on digital efficiency and new business models. Netural develops digital products and AI-supported services that combine user-focus and technology. Ortig is considered one of the most experienced digital strategists in the German-speaking area. Furthermore, Ortig is a co-founder of NXAI that is working together with AI luminary Prof. Sepp Hochreiter on a European alternative for high-performance and efficient AI models for industrial applications.

His philosophy:
„Digitisation must provide real benefits – for people, companies and society.“

Check: industry in transition

HOW DOES YOUR COMPANY OPERATE?

1. **When a new environmental requirement arrives, ...**
   A – we want a complete solution that covers everything.
   B – we react flexibly and adapt individual processes or components.

2. **Our maintenance is performed ...**
   A – pre-emptively. We want systems that are up to date.
   B – as required. We replace or optimise where necessary.

3. **Projects with external partners should especially be ...**
   A – delivered from a single source. Planning, installation, commissioning.
   B – run in close cooperation. We like to keep control over the sub areas ourselves.

4. **When investing in technologies, what's most important to us is:**
   A – future-proofing, sustainability and scalability.
   B – tailored solutions for current requirements.

5. **We are looking for a partner that ...**
   A – supports us from the start throughout the entire product life cycle – from consultation to after-sales service.
   B – supports us when we need it, e.g. during overhauls or with individual components.

EVALUATION

Mehr A? You think more holistically and long-term, ideal for a complete package from Scheuch: plant engineering, consultation, services and the most modern filter and exhaust air technology from a single source.
Mehr B? You require precise solutions with technical depth. Scheuch will support you with modular services, scalable individual technologies and components.

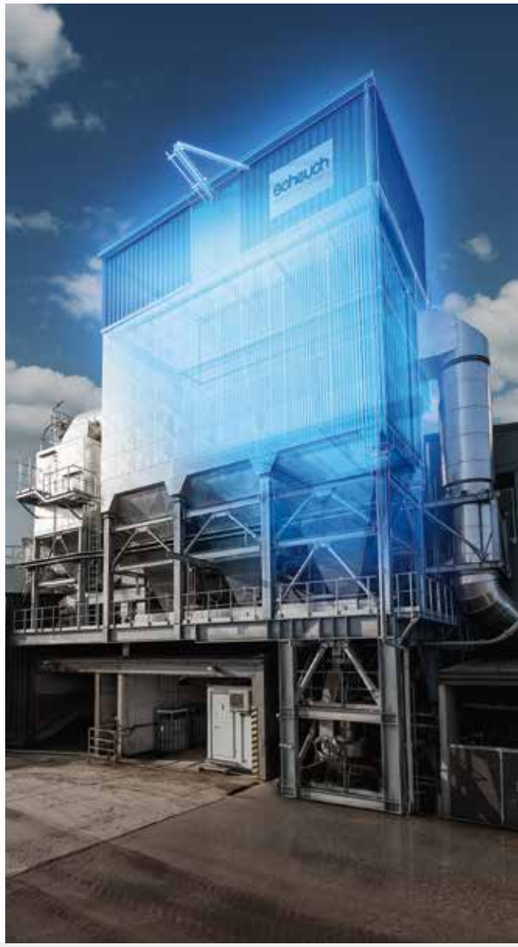
WHERE DOES YOUR COMPANY STAND?

- Does your company have a strategy for reducing emissions (e.g. fine dust, VOC, CO_2)?
- Do you use energy recovery or are you planning to do so?
- Are systems inspected regularly for energy efficiency and residual emissions?
- What is the current share of digital control / monitoring for your exhaust air systems?
- Is sustainability a topic in your investment plan for the next 1-3 years?

HOW FIT FOR THE FUTURE IS YOUR PLANT TECHNOLOGY?

Your check will show you what technical path your company is on. But often, the only thing between a solid solution and a future-proof system is a conversation.

Scheuch can help you to recognise the potential of your processes. No matter whether it's energy efficiency, reducing emissions or modernisation, those who plan for the future today save investments tomorrow.



FOUR BUSINESS UNITS, ONE AIM

Technologies that strengthen your company in the long term.

Scheuch INDUSTRIAL SOLUTIONS

For industrial companies with complex processes and high environmental requirements
From concept planning to the turnkey system. Scheuch Industrial Solutions realises comprehensive systems for air and environment technology for the industrial segments of energy, minerals, metals and wood based panels. In focus: dedusting, emission reduction, energy efficiency, CO_2 separation and digital system monitoring.

Scheuch LIGNO

For companies working to machine and process the widest range of materials. Coming from the solid wood industry, Scheuch LIGNO today offers its tailor-made solutions in the extraction, conveyance and surface technology areas, also for companies in the paper, insulation or plastic sector.

Scheuch COMPONENTS

Whether it's fans, conveying technology, rotary valves – Scheuch COMPONENTS offers modular technologies that can be integrated seamlessly into existing systems. Perfect for retrofitting, expanding and building new production units.

Scheuch NORTH AMERICA

For customers in the USA, Canada and Mexico. With locations in the heart of North America, Scheuch NORTH AMERICA offers complete system solutions, spare parts and service directly on-site. Sort reporting lines, personal consultation and technology „Made by Scheuch", adapted to the requirements of the North American market with the competence of the Camcorp and Schust brands.

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TECHNOLOGY FOR CLEAN AIR



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