

emissions

THE SCHEUCH MAGAZINE FOR
VENTILATION AND ENVIRONMENTAL
TECHNOLOGY



ROCK-SOLID FOUNDATION FOR AMBITIOUS GOALS

Scheuch is convinced that
innovations lead the way
to a successful future.

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a row

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goes green

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EDITORIAL



Dear Ladies and Gentlemen,

the protection of the earth we live on becomes more urgent than ever in light of globalization and the rapid population growth. Technologies for clean air are indispensable in today's industrial landscape. At the same time, competitive pressure increases among the global industry players on the international markets. Keeping this development in mind, the Scheuch Group focusses even more on technological differentiation.

The question is how an enterprise boosts its innovative power in order to stay competitive in the long run and to be a reliable partner for the customers simultaneously? We strongly believe in the professionalization of our ideas management because a treasure trove of knowledge is hidden in our employees' minds. Find out more about this important know-how and about the efforts to strengthen our core competences on pages 4-7 as well as on pages 30/31.

We continue with more technology news and information: Pages 10-27 will give you interesting insight into some of our customer projects from our Business Units Industrial Minerals Industry, Wood Based Panel Industry, Energy, Metal, Wood as well as Devices and Components.

We hope that this diverse plunge into the world of Scheuch proves to be interesting, informative and entertaining.

Best regards

Stefan Scheuch,
Managing Director, Scheuch GmbH

Jörg Jeliniewski,
Managing Director, Scheuch GmbH

A photograph of two men, Stefan Scheuch and Joerg Jeliniewski, standing in a factory. They are both wearing glasses and button-down shirts. The man on the left is wearing a light blue shirt and has a beard. The man on the right is wearing a white shirt and has a watch on his left wrist. They are standing in front of a large, circular industrial component, possibly a turbine or engine part. The background is slightly blurred, showing other industrial equipment.

ROCK-SOLID FOUNDATION FOR AMBITIOUS GOALS

“He who wants to build high towers must dwell with the fundament for a long time.” In accordance with the quotation of the Upper Austrian composer Anton Bruckner Scheuch consciously decided this year to put the ambitious expansion plans on hold and concentrate on core strengths. The focus is on the further development of the innovative power of Scheuch, the implementation of a standardized ERP system throughout the group and the post-merger integration of our US subsidiaries.

Jörg Jeliniewski and Stefan Scheuch are on the same page: “Innovations can only thrive and prosper if the foundation is solid. They are the key to lasting success and competitiveness.” In order to strengthen the base the Scheuch Group strategy introduces some profound changes within the company. “We took on the task to strengthen and further develop the entrepreneurial fundament,” explains Stefan Scheuch. A wide range of measures form the foundation for a healthy corporate growth and sustainable profitability.

Interlinking the Scheuch Group

The biggest and most demanding project is the implementation of the standardized ERP system for the whole Scheuch Group. With the decision to select “SAP” software Scheuch added an important component to boost the networking of all subsidiaries. Rollouts of the SAP modules were already implemented in fall 2017, first successes were clearly visible. “As a result of our rapid company growth in the last couple of years also the complexity of our systems and processes steadily increased. With the help of SAP we now are able to reduce the high amount of interfaces,” explains Joerg Jeliniewski.

Furthermore, necessary measures were taken in order to keep up with the internationalization and expansion of the company also in the financial sector of the Scheuch Group: The international accounting standards IFRS were adopted, in the future, financial statements are implemented according to international law. This ensures an even higher level of transparency and traceability on a global scale.

Stagnation signifies regression

The conversion of the Scheuch GmbH to a global acting enterprise automatically leads to a change in the organizational structure. “The reorganization will help us to be better prepared for future challenges. We are in an ever-changing environment and we have to adapt to these changes in every area of the company,” knows Stefan Scheuch. “The structures of the single units will become leaner, more flexible and agile,” Jeliniewski adds. With this reorganization Scheuch not only prepares for current developments on the global markets, but also assures a stable basis for the smooth integration of new company acquisitions and start-ups. →



A rock-solid foundation
for ambitious goals.

Welcome to the Scheuch family

Besides the reorganization the company now concentrates on the topic “post-merger integration” – especially in regards to the US subsidiaries CAMCORP and Schust Engineering. With Joe Whelan as the suitable Manager for the Business Unit North America, Scheuch can further intensify the integration initiatives. The focus is on brand development, technology transfer and the exchange of knowledge between headquarters and the transatlantic subsidiaries.

Also the acquisition of IPE in Dornstadt in the German federal state of Baden-Wuerttemberg helped Scheuch to gather additional industry expertise. Furthermore, the new production and service location helps to efficiently manage the market in Germany.

Strong Austrian roots

Despite the strong commitment to internationalization Scheuch has its eyes firmly on the Austrian headquarters. The targeted growth of the Business Unit Components with the strategy to concentrate on fans strengthens Aurolzmuenster as a production location. Here (and only here), core components with sensitive product know-how are produced. “We are one of the biggest employers in the area and we are aware of our social responsibilities towards our staff. The protection of the production in Aurolzmuenster is also part of this responsibility,” emphasizes Stefan Scheuch.

Our most valuable assets: the employees

Another flagship project that is part of our Corporate Social Responsibility (CSR) is the recently established Scheuch CAMPUS, a modern training and development concept for the more than 1,200 employees of the family run business. “All employees at the Scheuch Group – the apprentice as well as the specialized employee or the manager - can benefit from an individually tailored career development plan. Thus we invest in our most valuable assets: our employees,” Joerg Jeliniewski states proudly.

Innovations – the driving force behind the success

The new innovations management system of Scheuch is proof that investing in human resources is the right decision. The intranet based platform works entirely on the basis of the active participation of the employees. This tool helps to channel, evaluate and implement promising ideas from the staff. “Because of the new innovations management system our employees now have the possibility to actively shape the future of the Scheuch Group. At the same time it is an essential element to reach our strategic goal to further expand our technology leadership,” Stefan Scheuch is convinced. “In order to stay competitive in the long run we have to have one common goal and work united to develop new impulses and ideas,” Joerg Jeliniewski adds.

The inspiration that connects the company: the Scheuch Group vision

The first step to realize the Scheuch Group vision was already taken with the implementation of the innovations management program. The vision links and supplements all strategic actions within the company. “We are convinced that the protection of the human race and the environment as a whole is what gives meaning to our daily work and it pushes us forward,” Stefan Scheuch stresses. The vision “Our sustainable technologies ensure a clean planet for generations to come” reflects the growth of Scheuch from a middle-sized family business to an international corporation. This transformation requires a connecting element, or using the words of Joerg Jeliniewski: “Also in stormy times this vision is supposed to guide us and push us forward, to make us proud of what we achieve every single day.”

“

*It takes a stable
base camp in order
to climb the summit.*

— STEFAN SCHEUCH,
MANAGING DIRECTOR, SCHEUCH GROUP



Conclusion

In the 21st century not the small are gobbled up by the big, but the slow-moving are overtaken by the fast. We never questioned IF we will be among the winners – because we are and will be– but concentrated on HOW we will be successful in the future. As a result we realized all internal projects mentioned in this article within a short period of time and with a certain determination. We deliberately accepted high one-off costs and the strain on resources because the Scheuch Group as a whole is aware of its mission and responsibility. We are convinced that all actions undertaken are essential for the future success on the global market. ■

THE SCHEUCH GROUP

THE SCHEUCH FAMILY

1,200 employees



PRODUCTION PLANTS

More than 119,000 m² operational area



SCHEUCH
NORTH
AMERICA (2x)

SCHEUCH
SLOVAKIA

LBH

SCHEUCH
LIGNO

SCHEUCH
HEADQUARTER

IPE

NUMBER OF TRAINEES

50



INNOVATIONMANAGEMENT

115 submitted ideas within four months



FOUNDED

With 6 employees in 1963

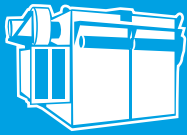


ACTIVE PATENTS

130 (22 patent families)

RANKING

Annual output volume of in-house production in Aurolzmuenster



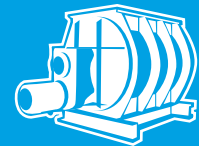
800

Bag filter



2.700

Fans



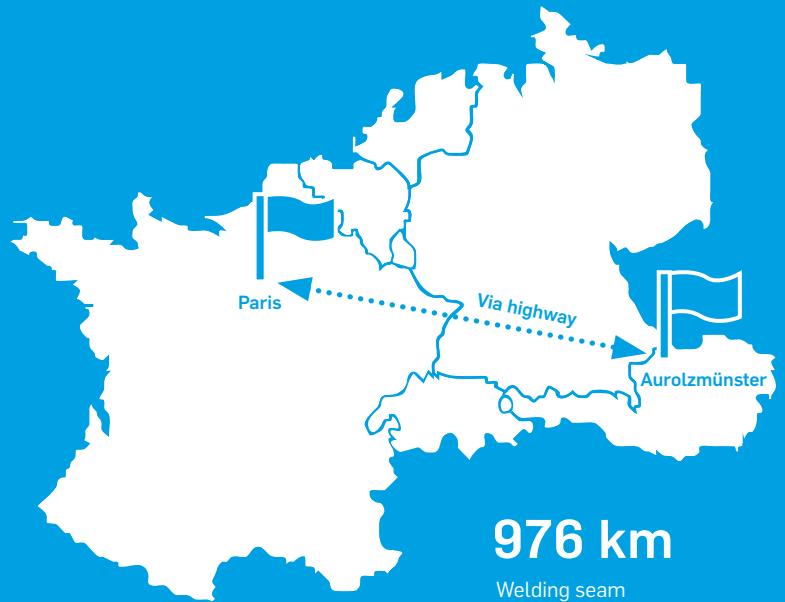
1.100

Air locks



4.225 km

Laser cut



DAILY BUSINESS TRIPS

Approx. 71 business travelers daily



NUMBER OF PART TIME WORKERS

9 %



AVERAGE AGE OF EMPLOYEES

Approx. 38 years



WOMEN'S QUOTA

16 %



NUMBER OF NATIONALITIES

26



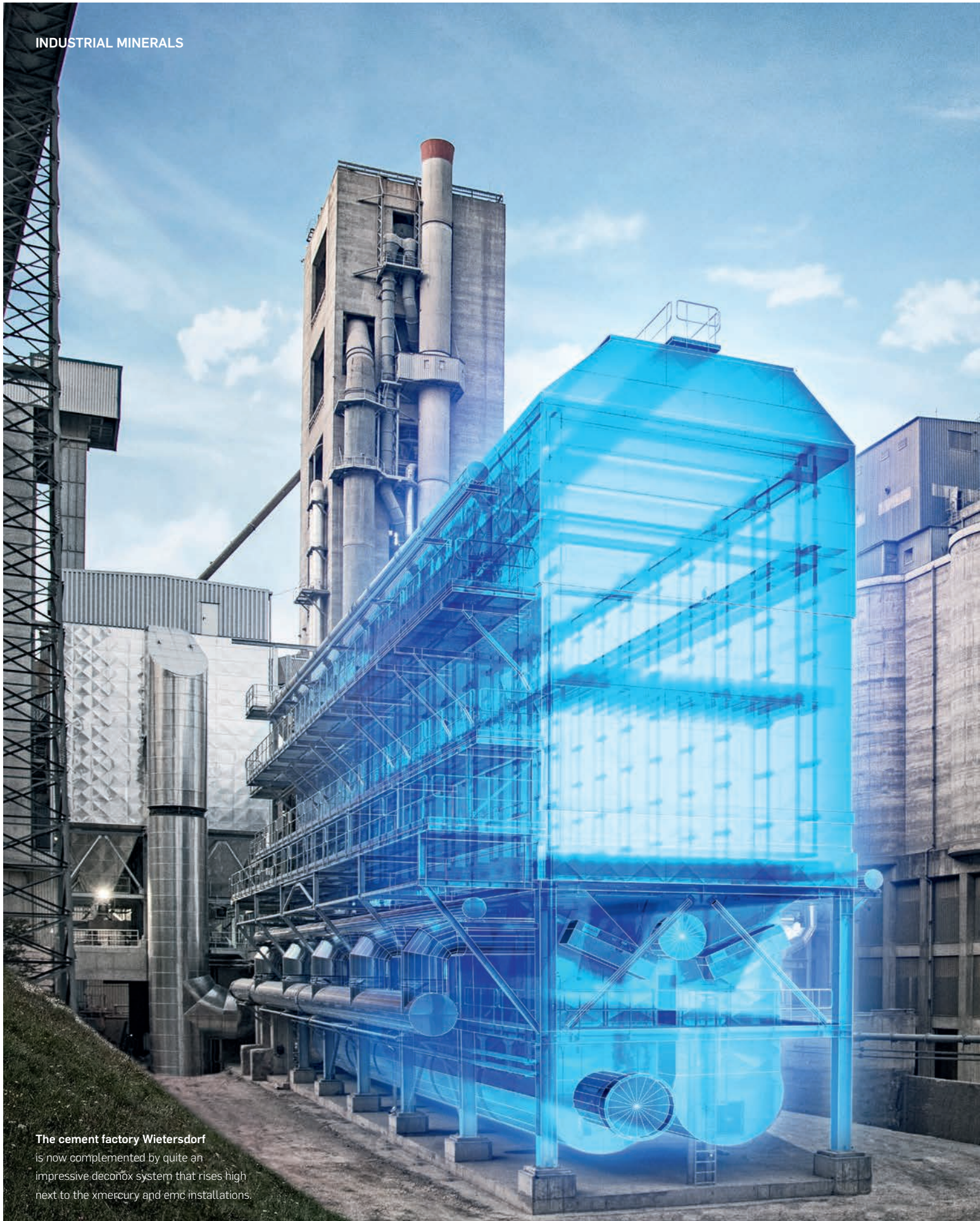
NUMBER OF JOB PROFILES

60



NUMBER OF LANGUAGES IN SCHEUCH GROUP

40



The cement factory Wietersdorf is now complemented by quite an impressive decontox system that rises high next to the xmercury and emc installations.

THREE IN A ROW

Air pollution control is becoming more and more important in the cement industry. The w&p Zement in Wietersdorf, Austria is demonstrating its commitment to clean air in an impressive way with its latest project “the glassy cement plant”, a term coined to describe the company’s approach to transparent cement processing. The outstanding technologies for this Austrian showcase project are supplied by Scheuch.

Scheuch, the Austrian company specializing in technology for clean air, has installed a total of three of its advanced cleaning technologies in the plant near Klein St. Paul. Following the installation of an xmercury system for mercury separation in 2013, the plant has now been fitted with a new emc bag filter and a deconox system for thermal post-combustion with an option that would enable the reduction of nitrogen oxide.

Built on trust

w&p has been a Scheuch customer for many years and was also one of the first to invest in a bag filter with filter bags made from glass-fiber membrane for the rotary kiln in Wietersdorf in the mid-1990s. “It’s great when you can build up trust over a long period so that we are in a position to provide our own replacements for old, outdated technology,” says Georg Lechner, Head of Sales for Industrial Minerals at Scheuch. The current bag filter is in fact the third that Scheuch has supplied to Wietersdorf. The first – a classic Online filter – was followed by a filter featuring emc technology, which was in turn replaced due to increasing air volumes.

High filter capacity with smaller footprint

What makes the current filter so special is its ten-meter (33 feet)-long bags – the only installation of its kind in Austria to date. This reduces the required footprint. With this bag length, the emc technology really comes into its own. Cleaning takes place in zero-flow conditions, as the filter module to be cleaned is shut-off automatically. This interrupts the gas stream in the module and makes it easier for the dust to precipitate. The process therefore requires less cleaning pressure, which in turn has a positive impact on the service life of the filter bags. →

One of the challenges for the installation in Wietersdorf was the relatively tight time frame, because there was less than a year between being awarded the contract and hot commissioning. The installation had to take place during the winter maintenance shut-down. “Everyone has to pull together – internally and externally – to make something like that happen,” says Lechner, who speaks highly of the successful partnership with w&p Zement and Wietersdorf plant manager Florian Salzer.

A positive step for the environment

The plant has one of the largest cement kiln lines in Austria and has made massive investments in recent years in order to reduce its emissions. A deconox plant, which was the latest investment, was installed which reduces the emission of organic carbon compounds by means of thermal post-combustion. The plant is designed in a way that will allow a clean gas catalyst to be integrated into the existing system later, rather than having to invest in a completely new plant.

The xmercury technology, which was installed in Wietersdorf as a pilot system three years ago and tested under real-life conditions, has also proven its worth. This system separates out the naturally occurring mercury which becomes volatile in the combustion process used in the cement industry. The amount of mercury obtained per hour can be equivalent to the quantity found in up to six thermometers.

Wietersdorf is well-equipped for the future as the only Austrian cement plant with three of Scheuch’s advanced cleaning technologies.

“

It's great when you can build up trust over a long period so that we are in a position to provide our own replacements for old, outdated technology.

— GEORG LECHNER,
HEAD OF SALES FOR INDUSTRIAL MINERALS
AT SCHEUCH

The deconox procedure is the combination of a regenerative, thermal oxidation (RTO) and a low dust SCR (Selective Catalytic Reduction) and unites the two proven technologies within one system.





One of Scheuch's most experienced construction managers was responsible for the assembly and start-up of all three flagship technologies in Wietersdorf.

The 'glass cement plant'

The Wietersdorf cement plant is committed to transparency, as demonstrated on its website. The plant's current emission values (mercury, dust, nitrogen oxides, etc.) can be viewed in real time at www.umwelt.wup.at.

About Wietersdorf

Wietersdorfer Zementholding, the holding company of the Wietersdorfer Group's Cement & Concrete business segment, is based in Klagenfurt, where strategic decisions on the further development of the business segment in Austria, Slovenia and Italy are made.

In Austria, w&p Zement GmbH operates a fully integrated cement plant in Wietersdorf (approximately 40 km north of Klagenfurt) and a cement mill in Peggau (near Graz). Saloni d.d. is active in Slovenia, with a cement production plant in Anhovo (near Nova Gorica) and a terminal in Ljubljana. w&p Cementi SpA is located in Italy, with a cement mill in Cadola (near Belluno) and a terminal in San Vito al Tagliamento (near Pordenone).

The plants have a combined capacity of around 2.0 million metric tonnes of cement and binding agents per year. ■

The cement plant in Wietersdorf invested massively in environmental technologies in the last couple of years in order to reduce emissions.



THAILAND GOES GREEN

10 a.m., Hat Yai, 30° Celsius in the shade. The sun in Southern Thailand shows mercy and hides behind a thick layer of cloud. Regardless, Gerhard Gehmaier, Sitthichai Jamchumrus and Dietmar Kraft are covered in sweat thanks to the infamous humidity of the Thai summer months. The Scheuch experts are in the course of checking and optimizing the brand-new seka in the particle board plant Green River. Emissions with an on-site report of Southeast Asia's first "legit" exhaust gas cleaning system for the wood based panel industry.

Some loose screws need to be tightened here and there, the one or other issue has to be clarified but otherwise the new Scheuch seka is doing exactly what it is supposed to do: it almost completely filters particulate matter and aerosols from the air, the white steam plume - elsewhere a fixed component of factory chimneys - is almost invisible.

Yes we can – zero emissions

This, probably a bit sinister looking steam plume, is the main reason why the Taiwanese company Green River decided to buy a Scheuch wesp (Wet Electrostatic Precipitator). "In Thailand the local residents

see this white steam plume and it scares them. They think it's full of toxic exhaust gases. And even though we tell them that it consists of simple and harmless water vapor, they don't believe it," Dr. Kitti teranasthiarphan, Assistant to Group CEO, explains. "Dr. Kitti", as he is known among his peers, by now knows the seka inside out. Ever since the negotiations with Scheuch started two years ago, he invested an extensive amount of time to get to know the technology. And while the idea behind the system sounded logical and plausible Dr. Kitti admits, he was a bit "suspicious" whether or not the wet electrostatic precipitator would keep its promise. "When we pressed the starting button and commissioned the



filter in April for the very first time and it was obvious that there really were no emissions visible – that was one of the most beautiful moments of my working career,” Dr. Kittti says with a smile on his face.

Pioneer work for our future

But not only the thoroughbred engineer and his 500 employees had a blast, also Andreas Koeck, managing director of Scheuch Asia, was extremely satisfied. For him, the installation of the very first seka in the region was a mile-stone: “Green River consciously accepted additional costs to invest in the latest environmental technology available. What’s more, the legislator doesn’t even call for it! An in-

creasing number of people here in Southeast Asia insist on the right to breathe clean air and in terms of environmental protection Green River clearly sets new standards in the region.” In light of the praise David T.S. Huang cannot hide a proud smile. “We are pretty brave, right?” the Group Chief Executive Officer of the Green River Holding Co. Ltd. jokes. And if he is really honest, “Mr. David” confesses, he has been dreaming of a “clean” production for a long time. “Some years ago we tried to seriously reduce the emissions of our plant on our own but failed. And that was the moment when we contacted the Scheuch office.” And the rest, as they say, is history! →



The Wet Electrostatic Precipitator is running smoothly - no steam plume is visible.

Market know-how from Bangkok – technical pioneering from Austria

Negotiations between Green River and Scheuch were tough but fair, the devil was in the details: “We had to find a proper wording for the contract, a wording that was accepted by both parties involved. That was sometimes quite challenging due to the different cultural backgrounds,” explains Dr. Kitt. So, what are the main reasons why Green River decided to buy the Scheuch WESP? “First of all, the technology convinced us, second, there is a local Scheuch office in Bangkok and third, Scheuch really wanted this job!”

“True,” admits Andreas Koeck and especially praises the support he received from headquarters in Upper Austria. “The installation was a huge challenge because we assembled the seka with this new design

for the first time and all stainless steel components were locally produced here in Thailand. In addition also the way we approached the double de-pluming – via heat extraction from dryer exhaust gasses and process water – was a unique novelty. I am absolutely delighted that the whole team collaborated in a highly professional manner.”

The seka is a wet electrostatic precipitator that is mainly used in the wood-based panels industry. It was designed specifically to filter fine dust from dryer exhaust gasses and to eliminate the steam plume.

Andreas Koeck, Scheuch Asia, and "Dr. Kitt" on the top platform of the seka.



Follow-up order confirmed

It was particularly important for Andreas Koeck to be a reliable partner for Green River as the company is currently building a third plant in Thailand – and we are not talking about some random, every-day project! The plant that is situated 50 km north of the city Trang will be the longest particle board line in Southeast Asia. Karakolidis Konstantinos, short “Kosta”, is responsible for this so-called “Cosmos” project. His site trailer is full of blueprints and calculations. That Scheuch will be a part of this new project is already set: pneumatics and wet press suction (sap) will be provided by Scheuch, if a second seka will be part of the deal remains to be seen. How big are the chances? Project manager Kosta smiles and hints: “As far as I am concerned our seka here in Hat Yai is a very strong sales argument and a second seka simply ties in with the philosophy of Green River.” So there is a good chance that Scheuch’s first seka in Southeast Asia will be joined by a second one... ■



“

The installation of the seka here at Green River was a milestone for the wood based panel industry in Southeast Asia.

— ANDREAS KÖCK,
GENERAL MANAGER, SCHEUCH ASIA



Andreas Koeck (right) presents the certificate for “Southeast Asia’s first Wet Electrostatic Precipitator”.



ON TIPTOES

At steel plant Marienhütte GmbH in the Austrian city of Graz, a new primary and secondary dedusting plant for the electric arc furnace has recently been put into operation. With this installation, plant manufacturer Scheuch is setting new standards when it comes to minimizing sound emissions.

Marienhütte is Austria's only manufacturer of reinforcing steel. Its dedusting plant, which has been in service for 35 years and is able to extract air at a total rate of 900,000 Am³/h, has reached the limits of its capacity due to constant increases in production output. In addition to ensuring unrestricted production levels, environmental concerns are also a top priority for Marienhütte. By renovating the existing filtration plant, it was possible to meet these concerns by increasing the volume of extract air handled to 1.2 million Am³/h and, accordingly, to improve the rate of dust emissions collected.

Minimizing sound emissions

The Marienhütte steel plant is located in an urban area and is therefore subject to very strict requirements when it comes to reducing the amount of noise emitted from industrial plants. Sound absorbers were mounted on the suction and discharge sides of the installed radial fans to enable the sound emissions to be reduced to a very low level. In addition, the entire filter (incl. filter head, filter housing and hopper) is clad with a special sound insulation. ■



Scheuch realizes another flagship project for the steel industry in an urban environment: the dedusting system close to Marienhuetten.



Scheuch took care of all the planning, delivery, installation and commissioning work in the new dedusting plant of the electric arc furnace.

THE BATTLE AGAINST NOISE

The noise that we are exposed to on a daily basis is dramatically increasing, yet so too is the demand for peace and quiet in our hectic daily lives. As a result, efforts to minimize sound emissions are taking on a key role in the industrial sector too.

Very few companies have the option to build their plants on greenfield sites away from residential areas. As a general rule, traditional companies like Marienhütte have historically been situated in conurbations, and new settlements are springing up ever closer to the boundaries of the company's premises.

Legislators take this issue into account when they define limit values for noise pollution. When a new plant is constructed, new sound emission sources are automatically created too. This has to be considered during the planning stage to ensure that operation of the new installation does not noticeably increase the sound pressure level in the neighbourhood.

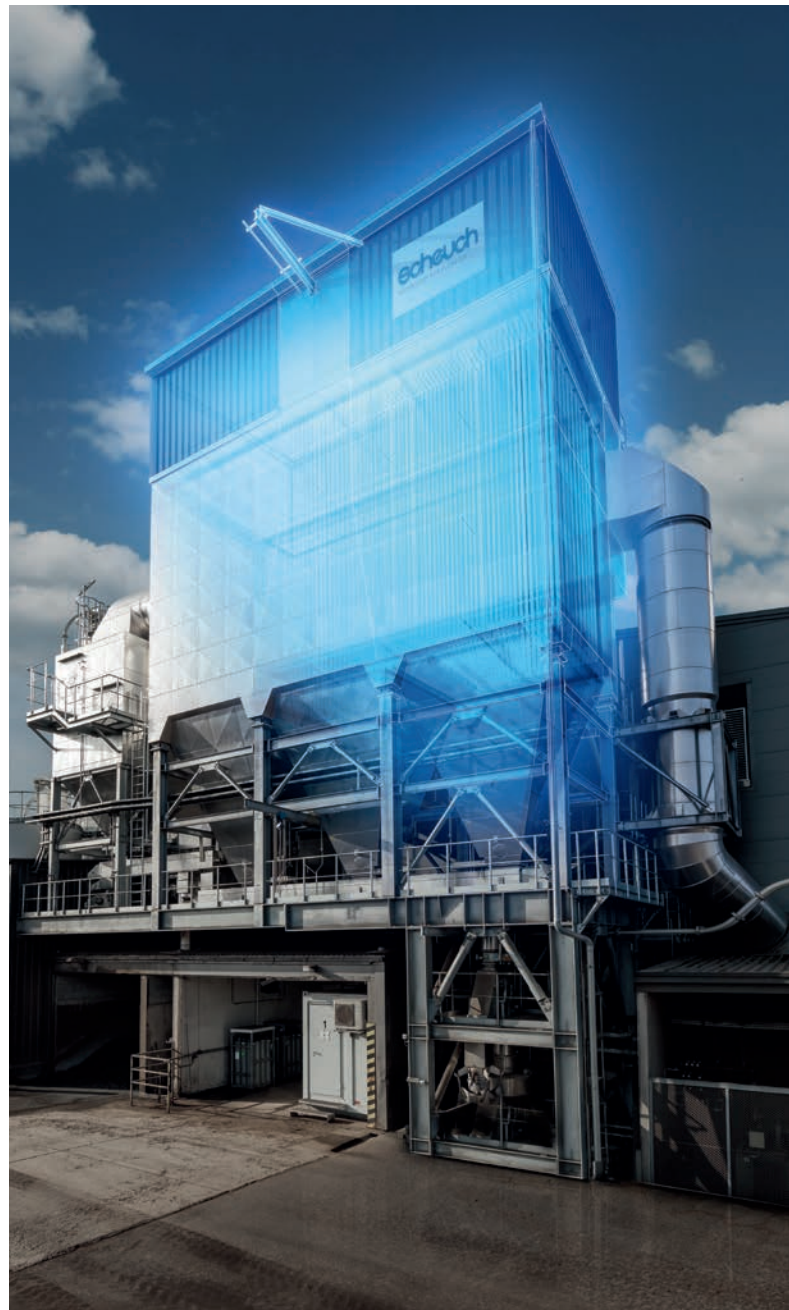
The main sound sources of the new dedusting system provided by Scheuch at the Marienhütte steel plant in Graz are fans. These resonate in the connected components such as ducts, pipes and filter housings. The components emit sound to their environment via their outer skin and the radiated noises can only be reduced by means of insulating or damping measures. This is where Scheuch and its state-of-the-art technology comes in: "Sound insulation can cost a lot of money. Our experts find an optimized concept for every customer, meaning the investment costs pay off in the long term," emphasizes Klaus Emprechtinger, Head of Sales for Metals & Energy at Scheuch.

START-FINISH-VICTORY FOR SCHEUCH PERFORMANCE

2VALORISE's biomass power plant is situated only 30 minutes from the famous motor sports racetrack "Circuit de Spa-Francorchamps". A number of speed records have been set on this tradition-rich circuit in Belgium so far and Scheuch apparently was inspired by the high-velocity atmosphere: Only six months passed between the signing of the contract for a turn-key exhaust gas cleaning system and its commissioning.

The biomass boiler of 2VALORISE close to the city of Amel burns woody biomass to generate energy in two boilers with 20 MW thermal heating capacity each. Until mid-2017 an electrostatic precipitator was used for cleaning the flue gases.

In order to further meet the statutory emissions standards the owners decided to renew the entire exhaust gas cleaning system and upgrade the plant with Scheuch designed and installed high technology-equipment. The complete system is based on the best available technologies on the market and consists of high tech elements engineered and fabricated by scheuch. "The plant has been in operation since one and a half years and is running smoothly. This is a proof for the high quality standards of our supplier. We are happy we opted for Scheuch," says 2VALORISE project manager Christophe Messerich.



References speak for themselves

Before choosing Scheuch the client wanted to get a clear picture of the company and the high quality requirements of the pioneer for clean air. 2VALORISE visited factories all over Europe, had extensive personal interaction with other operators and inspected already existing filter systems. In the end the references spoke for themselves. “The low operating and maintenance cost as well as the high availability of the bag filter technology fully convinced our customer,” explains Scheuch Sales Manager Francois Gallic.

One provider – a bundle of knowledge

A precondition for the successful installation for this kind of flue gas cleaning system is the precise planning and design of all built in components. Here, Scheuch benefits from the decades of experience in plant construction and is able to provide a full range of turn-key and single component solutions. Sales, Project Management, Construction, Research & Development and Production – all threads come together at headquarters in Upper Austria. As a full-service provider Scheuch doesn't depend on external companies and that's why the pioneer for clean air is the perfect partner for EPC-projects.

Athletic performance

Keeping within the statutory emissions limits was the number one reason for the tight time schedule of the project. The minute the ink had dried on the contract the clock started ticking... Only half a year has passed since signing the contract until the modification of the filter system, which in fact represents a very sporting achievement. Within only six weeks the old electrostatic precipitator was disassembled and the new bag filter was installed - a very “athletic” performance for this kind of installation. After a short timeframe for the assembly the

new plant was put into operation in summer 2017. “Things had to happen fast. We owe the success of the project primarily to the excellent cooperation between our Scheuch subsidiary in Paris and headquarters in Auroldmünster,” explains Emprechtinger.

The art of Retrofitting

The modernization of the exhaust gas cleaning system in Amel was a challenge for the whole Scheuch team. Particularly demanding was the integration of the new system in the original plant. Disassembling the worn out ESP within this short period of time was a tough job even for our experienced crew. The tight space conditions on-site were an additional task the planning experts had to master. The 2VALORISE plant was upgraded with the most advanced gas cleaning technology: SNCR, bag filter, pre-separator, fan and additive dosage. Scheuch was also responsible for the entire ducting system and the integration of the new flue gas cleaning system in the existing PLC. ■

FACTS

ENTIRE SCOPE OF SUPPLY:

- Multicyclone
- Baghouse filter
- ID-fan incl. ducting
- Additive dosing system incl. silo
- Fly ash conveying system incl. silo
- SNCR incl. maintenance platforms
- Electrical cabling and control cabinet
- Continuous emissions monitoring system (CEMS)
- Foundation works
- Dismantling, mechanical installation and commissioning

COMBINING STRENGTHS

Scheuch LIGNO: An expert and reliable partner for both trade and industry. The sales realignment combines skills and expertise to provide innovative reference examples and ensure that customers are satisfied. Read an excerpt here.

Since the company was founded in 2015 (Scheuch LIGNO originated from the wood division of Scheuch GmbH), Scheuch LIGNO has established a strong reputation among customers from both trade and industry within the wood sector. In early 2018, the company acquired IPE Produktionsgesellschaft für Entsorgungssysteme mbH to encourage even more efficient growth with regard to trade. The product range features an impressive flexible modular system for mobile dust extractors and stationary extraction systems. This system is also a useful solution when planning is defined by limited space. In addition, it provides customers with tailored solutions and enables trouble-free expansion of their systems – even decades later. “By integrating the IPE solutions into the Scheuch LIGNO product range, we can combine our expertise from the fields of trade and industry and benefit from the resulting synergy effects.

Tradespeople benefit from industrial know-how, and in turn, the industry also benefits from trade solutions. It’s a win-win situation for both sides”, emphasizes Alois Burgstaller, Managing Director of Scheuch LIGNO.

A textbook example provided by Möbel Gruber GmbH

The single-pipe system of the sepas 8000 exhaust system is a perfect example of how a particularly flexible industrial solution was adopted by trade. Future flexibility was an important factor for the growing business of Möbel Gruber GmbH, based in the Zillertal in Austria. After installing two sepas 8000 systems, each with an output of 8,000 m³/h, together with a silo solution, Managing Director Christian Gruber was impressed by how easy it is to replace machines thanks to the single-pipe system.



“One single supplier and the best value for money” were the key factors in furniture producer Faustmann’s (Styria, Austria) decision to place the order with Scheuch LIGNO



“We have already replaced two machines and, even though I deliberately chose the single-pipe system, I was surprised by how easy it is to respond to modified machine requirements with the sepas system. I am absolutely convinced that choosing this Scheuch LIGNO product was the right decision”, confirms Christian Gruber, Managing Director of Möbel Gruber.

Everything from a single source: Extraction, painting, grinding and silo discharge

Everything from a single source – that was the motto of Faustmann Möbelfabrik GmbH from Styria, Austria, when it came to building their new production hall. Scheuch LIGNO supplied all systems for extraction, painting, grinding and silo discharge, which meant that they were all perfectly coordinated. In addition, the furniture company saved a lot of time and money.



Scheuch LIGNO supplies Faustmann with products and know-how in the areas of extraction, painting, grinding and silo discharges.

“It was of the utmost importance for us, that we had only one single source of supply. Thereby we only needed one contact person.”
Gerald Gremsl, Plant Manager at Faustmann GmbH.

“It was very important to us that everything was provided by a single source. As a result, we only had to deal with one contact. We also compared offers and Scheuch LIGNO had the best price-performance ratio on the market”, says Gerald Gremsl, Plant Manager at Möbelmanufaktur Faustmann GmbH. A single point of contact for four system areas saves time and money – for all the administrative procedures, for commissioning and also for future maintenance.

In the new production hall, Scheuch LIGNO installed a sepa extraction system with a total air volume of 66,000 m³/h. 25 processing machines were connected to the flexible single-pipe system of the impuls filter system. “The single-pipe system was very appealing because it helped to avoid a tangled mess of lines in our new production hall”, emphasizes Gerald Gremsl. Two painting cubicles, a drying room, an anteroom with a continuous painting system, a dust lock, a paint preparation cubicle, a ventilation system for the paint store as well as a grinding cubicle – all from Scheuch LIGNO’s SELAS range – were also installed at Faustmann. “From the floor to the high-gloss finish – it was all done by Scheuch LIGNO. Visually, it is very clean and pure”, says Gerald Gremsl.



Furthermore, Scheuch LIGNO also supplied them with a silo discharge with a truck loading screw. This means that the material can be removed at any time by truck if the silo is too full.

“Flexible, fast and reliable”

Scheuch LIGNO also scored points with a large project in the solid-wood processing industry: At best wood SCHNEIDER GmbH, based in Eberhardzell in Baden-Württemberg, Germany, Scheuch LIGNO set up three filter systems with a total extraction output of around 400,000 m³/h. The three filters transport the chips to an existing silo via a common 400-metre-long high-pressure line with a capacity of 8,000 kg/h. Despite the systems’ dimensions, the specialist in air technology carried out the assembly process to the complete satisfaction of the customer and proved to be a fast, flexible and absolutely reliable partner.

“

The assembly team’s work was independent and reliable despite the complex assembly situation.

— ANDREAS SCHILLING,
PROJECT MANAGER BEST WOOD SCHNEIDER GMBH

“Throughout the project, Scheuch LIGNO was always very flexible. Changes made to the original concept were implemented easily and quickly. Scheuch had no problem adopting easier and better solutions; other companies often struggle with this and are not that flexible”, remarks Andreas Schilling, project manager at best wood SCHNEIDER GmbH. “The assembly team were very reliable and good at working independently. They really mastered all the tasks – despite the complex installation situation.” ■



NEWS

NEW HEAD OF SALES ON BOARD

In order to adapt in the best way possible to the structural changes, the company now has separate sales structures for trade and industry: Hubert Hargaßner became the new Head of Sales for Trade for the Austrian air technology specialist in May 2018. The 53-year-old from Upper Austria will continue to expand this business segment: “There are now two separate sales managers for trade and industry. Hubert Hargaßner is responsible for trade, Thomas Lacher for industry. Hubert Hargaßner knows the market very well and understands the requirements that we face in this field”, explains Alois Burgstaller, Managing Director of Scheuch LIGNO GmbH. Hargaßner has been active in this sector for many years, working for Bene Büromöbel GmbH, Wintersteiger GmbH and most recently Homag Austria GmbH.



Two out of three filter units with an overall extraction capacity of 400,000 m³ at the best wood SCHNEIDER GmbH in Eberhardzell in the state of Baden-Wuerttemberg, Germany.

WHY WAIT FOR THE FUTURE?

Curious to find out about the latest developments in the glass industry? Are you ready for some high-end technology? If yes, the Scheuch booth at the “glasstec” exhibition in Duesseldorf this fall is worth a visit.



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The leading trade fair with roughly 1.200 exhibitors regularly attracts more than 40.000 industry visitors from all over the world. Scheuch presents some cutting-edge products and solutions for air pollution control for the glass industry and also debuts a new fair stand concept: Not one but two Business Units of the Scheuch Group introduce systems and components for a clean glass production, processing and finishing. The “Components” unit focusses on various standard and individual, special fans and the unit “Industrial Minerals” celebrates the next innovation step of the hot gas filter technology.

Hot stuff

Dentrification, dust extraction, desulphurization – Scheuch’s new hot gas filter for the glass industry unites three benefits in one system. “Our latest product for exhaust gas cleaning and dedusting revolutionizes the filtration technology of the glass industry. I’m absolutely excited to present this novelty

to a wide trade audience,” says Georg Lechner, Sales Manager of the unit “Industrial Minerals”.

Scheuch is the first company in the world to supply hot gas filter technology with six meter filter cartridge elements for the industry. The combination of filtration, catalytic reduction and desulphurization in a single process step is suitable for a wide range of application. One of the many advantages is the high temperature resistance of the filter cartridge. Traditional bag filters with textile fabric filter media reach the limit at 250°C processing temperature, hot gas filters with ceramic filter elements can deal with 500°C or more. This opens up entirely new plant concepts for an economical as well as ecological dust precipitation and reduction of emissions.

The centerpiece of every plant – the fan

With the enhancement of our product portfolio in the “hot” sector, Scheuch proves once again that it is way ahead of the competition - not only in the

international turn-key plant construction. "In order to be able to offer extraordinary components you have to know the business inside out and you have to develop a gut feeling for the perfect design of the plant in order to meet the diverse customer needs in the glass industry. We are currently constructing fans that can be used up to an operating temperature of 1.200°C," explains Sales Manager Ingo Sobotta of the "Components" unit.

All fans innovated by the pioneer for clean air are customized according to the needs of the clients. With the heavy-duty version of the industrial fans Scheuch - without a doubt - is the right partner as the massive construction perfectly fits the harsh conditions for glass production and processing – a perfect match all along the line! ■

WELCOME ABOARD

MICHAEL BRANDL, HEAD OF BUSINESS UNIT COMPONENTS



For almost a year now Michael Brandl has been commuting from his home in the suburbs of Linz to the Scheuch headquarters in the Upper Austrian "Innviertel" district. The new head of the Business Unit Components has a clear vision, and he is convinced that: "A plant is so much more than the sum of its parts." Michael Brandl focuses on the holistic approach. "We always keep the whole process in mind, because that is the only way we can offer the best possible components to our customers. Here we obviously also benefit from the comprehensive plant construction knowledge of Scheuch."

Michael Brandl who was born in the "Innviertel" has a rather distinguished and exciting professional background and it all started after he graduated from the Montanuniversitaet Leoben where he studied "Metallurgy and Business Administration". The 39 year-old worked in top leadership positions in Europe, North America, the United Arab Emirates and Hong Kong for global players like voestalpine and STEYR MOTORS.

Michael Brandl and his team have big plans for the future: "It is our goal to increase the performance of our customer's plants with our unique components. We are fully committed to this target and work hard every day to reach it."



Inspiring young people for engineering is important to Stefan Scheuch.

WATCH OUT! KIDS IN CHARGE...

Scheuch kills two birds with one stone: with the two-week holiday camp for Scheuch employees' kids the company encourages young tech-talents to follow their path. Added benefit: the working parents don't need to worry about their offspring.

What is probably one of the most pressing problems in a working parents' life? Balancing nine weeks of school holidays with a demanding job and Scheuch is aware of it. As a certified family-friendly company Scheuch wants to support the employees and offers a two-week summer holiday camp for kids at headquarters in Auroldmuenster. "Children are our future. As a company we are aware of this and the responsibility towards our employ-

ees. The holiday camp helps the parents and we also benefit from it because we have the possibility to inspire young people for engineering," Scheuch GmbH Managing Director Stefan Scheuch explains.

Change your point of view: through the eyes of a child

The task force "career & family" together with the association "Kinderfreunde" (transl. "friends of children") created an extensive program to not only

Holidays in your parent's office? Why not! For two weeks employees' kids are in charge of headquarters in Auroolzmuenster.



entertain kids but also to get them interested in environmental protection in a fun and playful way. Sports activities as well as out- and indoor experiments provide action and the factory tour is always one of the highlights: "This tremendous thirst for knowledge of young people is impressive. They ask so many questions and they approach things in a different way – things we adults often take for granted. This exchange is beneficial for both sides," Stefan Scheuch is convinced.

Keeping the balance between career and family

Since 2012 Scheuch GmbH is rated as a family-friendly company. It is part of the company's philosophy to encourage and practice social conscience, sustainability, responsibility and fairness. For more than 50 years the owners have been focusing on these values. The staff appreciates the efforts and the possibility to spend quality time with the family. In return the employees are highly motivated and committed to work for Scheuch – a classical win-win situation. ■



Meet the new inventors, explorers and scientists.



INNOVARE!



Keeping entrepreneurial foresight in a highly dynamic market doesn't just "happen". This is why the Scheuch GmbH focusses on technological differentiation in order to succeed on the global market in the long run. A professional innovations management, as well as a clear commitment to research and development, always has been a top priority for the pioneer for clean air.

The motto "Innovare" (Latin "to make changes") has deep roots and a long standing history at Scheuch. Ever since the company was founded, technological achievements have been the driving force behind the continuing success. "Developing forward looking innovations is a team sport and it takes the full strength of all expertise and know-how of a company. A major factor is to combine our in-house Scheuch knowledge with knowledge from outside the company," explains Stefan Scheuch, General Manager of Scheuch GmbH. With this message always in mind Scheuch develops forward-leading technologies and solutions for industrial air pollution control. The primary goal is to deliver the best possible value for the customer. "The demands of our customers are always our top priority, this is what we focus on every single day," Jörg Jeliniewski says.

A professional platform

To show that these are not just empty words, the company with more than 1,200 employees around the globe, introduced a software-supported ideas and innovations management. This tool helps to efficiently focus and to distribute available resources to projects with a high potential. At best, the initial idea should make progress and enter the development phase with the goal to launch a new product on the market at the end of this clearly defined process. In order to use the new platform in an efficient and meaningful way Scheuch relies upon its most valuable "innovations thing tank": the creativity and know-how of the employees. The new tool to systematically record innovative ideas was launched last spring with the help of an internal communications campaign that for a whole month highlighted the importance of innovations. Extensive workshops and videos helped the employees to understand the meaning of the project as well as how to use the new software. ■

BEHIND EVERY INNOVATION IS AN IDEA

Certain fields of innovation have been defined in order to be able to search for ideas on specific topics. One such example is the topic of catalytic denitrification. Nitrogen oxides (NO_x) are produced at high temperatures in industrial production plants (e.g. in cement plants or power plants) and must be minimized as they are harmful to the environment.

Anticipating more stringent limit values for NO_x emissions, Scheuch defined this innovation field in 2008 and started a basic project to further develop the selective catalytic reduction (SCR) process as a means of reducing NO_x emissions. The very next year, the first pilot plants were commissioned at selected customer sites in the cement industry in order to gain valuable know-how for use under real conditions. Finally, Scheuch got the order by Lafarge Cement in 2010 to install a full-scale pilot plant for the selective catalytic reduction of NO_x emissions in the Mannersdorf plant in Austria as part of the country's environmental promotion programme. This was the first large-scale plant of its kind worldwide. After several attempts to reduce organic carbon compounds (VOCs and CO) by means of catalytic reduction achieved little success, the project team came up with a brilliant idea: To combine the separation of VOCs and CO through regenerative thermal oxidation (RTO) and denitrification by means of Low-Dust-SCR in one combined system.

deconox – Scheuch's patented process for the reduction of NO_x, VOC and CO at the same time – was born. Thanks to this process, Scheuch has achieved technological differentiation, thereby ensuring the company's competitiveness at the same time. Scheuch spent around three years developing the deconox process. In experiments conducted at a laboratory facility in Scheuch's technical centre as well as at a pilot plant under real test conditions at Kirchdorfer Zement, the team tested and optimized the process and demonstrated its functionality. In 2014, the first deconox plant was finally sold to Kirchdorfer Zement. Since then, Scheuch has successfully sold deconox- and SCR-systems. The deconox technology is therefore a great example of a successful innovation, and of how an idea and its implementation can lead to commercial success. ■

2017

HeidelbergCement
HighDust-SCR

ENECO BWI
LowDust-SCR

Dyckerhoff
deconox

Leube Baustoffe
deconox

2016

w&p Zement
deconox

Schwenk Zement
deconox

2015

Portlandzementwerk
Wotan
HighDust-SCR

2014

Attero
LowDust-SCR

Kirchdorfer Zement
deconox

2010

Idea deconox

Full-scale pilot plant
VOC-reduction

Lafarge
HighDust-SCR

2009

Full-scale pilot plant
NO_x-reduction

2008

Development project
NO_x-reduction

LATEST GENERATION
OF ELECTROSTATIC
PRECIPITATOR TECHNOLOGY



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