LYBOVER

news

Fall 2023 edition

Growth, innovation and collaboration

Filip and Hans Boels,
CEO's Lybover

Welcome to the latest edition of our Lybover News magazine. The past year has been a time of growth and innovation for us and we are happy to share some developments with you.

A milestone we announced this autumn is the opening of our new hub in Beringen. This strategic location allows us to further optimise our services and serve our customers even better. Our headquarters in Waregem will also be further expanded in the coming years. Due to continuous growth, we need more employees and therefore more workplaces.

Despite our rapid growth, we find it important to maintain the family atmosphere of our group of companies. At our family day in September, we brought together employees from both Waregem and Bruges and strengthened our bond as one big Lybover family. At Lybover, we place a strong emphasis on innovation and implementing new techniques to meet the changing needs of our customers and to work faster and more efficiently ourselves. Using a total station to measure, plot and check layouts is a great complement to existing technologies such as 3D scanning and virtual reality.

With German based Westeria, we also added a new technology partner to our portfolio this year. We would like to thank all our partners for their continued support.

To further strengthen our presence at European level, in addition to a Partnership with recycling federation Denuo, we decided to enter into a Sponsorship with the European federation EuRIC. Finally, through our membership with Flanders Metals Valley, we also joined a community of like-minded companies striving for excellence in the metals sector.

Over the past year, we have worked hard to evaluate and optimise our internal business processes. The upgrade of a new Project Management Office is an important step in our drive for efficiency and effectiveness. We also mapped our Customer Journey to create the Lybover experience at every touch point. For years, we have been committed to building installations at customers' sites that increase sustainability. Now we also started documenting our existing sustainability efforts to define new targets and increase our impact.

Together, we face an exciting future, full of growth, innovation and collaboration.

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Tackling problems at the source: Lybover optimises green power plant

The Lybover way

We did not simply propose a solution, but tackled the problem at its source. In this way, we optimised the entire process, rather than just remedying the consequences. And that with a modern project approach based on 3D engineering and virtual reality. Resulting in an efficient installation in a limited intervention time.

The composition of non recyclable waste wood today can vary greatly. This posed a challenge to A&S Energie, which produces green energy from wood waste. The energy company engaged Lybover to optimise the supply and processing at its green energy plant in Oostrozebeke. Four Lybover units joined forces, worked out and implemented a new concept for the existing plant. A complex project, but right up Lybover's street.

Biomass supply and processing: room for improvement

At its green power plant in Oostrozebeke, A&S Energie processes non-recyclable wood waste into green electricity. "The power plant runs 24/7, more than 8,000 hours a year. If the supply and processing are not efficient and the plant stalls due to unplanned downtime, it costs A&S Energie money," says Lars Van Volsem, Sales Engineer Projects at Lybover RECYCLING.

Especially the small and large fraction sizes of the biomass supplied, non-recyclable wood waste, can cause problems: wear further down the plant and blockages in the line.

Our solution? We did not choose to use even more wear-resistant material, but we removed the fine fraction that causes wear from the material flow.

The solution, the test, the confidence

Lars Van Volsem: "As the heart of the solution, we proposed integrating a 3D combi sieve from our German partner Spaleck. This removes both fine dust and oversized pieces from the process." To persuade A&S Energie, Lybover took the energy company to Germany. Lars: "There, we conducted a test with the material from A&S Energie. This allowed the customer to see for themselves the actual fraction distribution of the biomass. This gave us the confidence to start the optimisation."

Improving biomass supply and processing

The existing set-up consisted of two redundant supply lines to feed the wood waste via conveyors to a main line (A) and a secondary line (B). There was also a C line for briquette transport that was no longer used.

The complexity lies in integrating the new screen into the existing process. For this, we had to extend the existing belts and diverter valves and add new conveying systems - such as an additional conveyor belt, extraction floor and screw. These were made to the A&S standard with ceramic, wear-resistant linings. The briquette line now disposes the fines. Finally, additional piping and transition pieces ensure efficient dedusting.

Clear picture thanks to 3D scanning

How do you convince the customer that we could integrate our solution perfectly into the existing plant? Thierry Sabbe, Teamleader Projects Lybover AIR: "3D scanning made it very visual. On top of that, we let A&S Energie employees walk through the installation with virtual reality. This allowed them to virtually walk to each hatch and check accessibility."

"The test with the in-house material was a real eye-opener for the customer. This gave us full confidence."

Lars Van Volsem,
Sales Engineer Projects Lybover RECYCLING

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At a glance

step 1
THE SPECIFIC SITUATION

Energy company A&S Energie contacted Lybover to optimise the supply and processing of delivered biomass (waste wood) at its green power plant. Due to wear and blockage, these are not running optimally.

step 2
THE UNIQUE IDEA

Starting from the existing situation as much as possible and optimising. The integration of a new screen forms the heart of the solution. By addressing the cause of the wear and tear, we reduce maintenance costs. Supply lines and dedusting are also made more efficient.

step 3
UNDER OUR CARE

Four Lybover units are involved: RECYCLING, AIR, BULK and INSTALLATION. A&S Energie can therefore rely on one partner for the entire project.

step 4
FINAL RESULT

Feeding, processing and dedusting are much more efficient. In a follow-up project, Lybover BULK also replaced the housing of the elevators. And A&S Energie is looking at whether it can implement the optimisations of the green energy plant in Oostrozebeke at its other sites.

5,000 metres of food-grade piping for Brasserie St-Feuillien

In Le Roeulx, Brasserie St-Feuillien has been brewing beer for 150 years. Until recently, this was done in the historic brewery in the town centre. However, there was no room there to bottle on premise and ensure continued growth. To gain full control over the beer production and further scale up its capacity to 120,000 hectolitres a year, the brewery decided to move to a new site outside the city centre. Lybover METAL came up with a convincing proposal for the mechanical installation works of the cold block. That was the start of one of our biggest piping projects to date.

Strict quality requirements

Brasserie St-Feuillien was looking for a company that would take care of the mechanical installation works in the cold block. Several parties came up with a proposal based on the specifications, the 'Piping & Instrumentation Diagram' (PID) and the 3D designs by iQ PROCESS. There were strict requirements on materials, insulation and execution. A correct price on the accurately prepared proposal convinced St-Feuillien to choose Lybover.

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The Lybover way

A sophisticated design, precise execution according to strict requirements and flawless communication between all parties involved ensured that we delivered this project on time and without flaws. And that despite the very tight schedule, because the brewery was not allowed to fall behind on deliveries due to the move.

"We worked for the brewery, but iQ PROCESS managed everything. We sat together almost daily at some crucial moments. Since we had worked together before, we complemented each other's expertise perfectly," says Wout Decoutere, Sales Engineer Projects at Lybover METAL.

From tunnel to ceiling

"Timing was essential in this project. After all, Brasserie St-Feuillien had to be able to continue supplying beer. There was a 5-week buffer in capacity, though," says Wout.

Our colleagues from Lybover METAL and INSTALLATION started their activities already during the structural works. The first task: installing piping in a 40-metre-long underground tunnel between the cold block and the bottling plant. "This involved beer piping, but also piping for CO_2, steam, condensate, compressed air, CIP and process water, among others," Wout clarifies.

"During the structural phase, we also made a 3D scan of the building. This allowed us to already start producing the piperacks, which we would fix at 7 to 8 metres above floor level."

Kilometres of piping

After the floor was finished, the instruments, tanks and pumps arrived on site - both appliances from the old brewery and new machines. Wout: "Our colleagues from INSTALLATION, in collaboration with other suppliers and the brewery, positioned and anchored all those parts in the right place. Where necessary, we built and placed skids for the equipment. Then we connected all tanks, pumps and instruments with the necessary pipelines and fittings. We also provided a CIP (Clean In Place) station for cleaning the installation. In total, we installed some 5,000 metres of piping."

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At a glance

step 1
THE SPECIFIC SITUATION

Brasserie St-Feuillien moved to a new location to scale up its capacity. iQ PROCESS provided the engineering for the installation and, together with the brewery looked for executing partners for the mechanical and electrical installation of the cold block for the tanks on the basis of a comprehensive tender document. Timing would be crucial to avoid delays in deliveries.

step 2
THE UNIQUE IDEA

Lybover METAL came up with a convincing proposal for the mechanical installation works in the brewery's cold block. It met the strict requirements in terms of material selection of material selection and execution.

step 3
UNDER OUR CARE

After a 3D scan, Lybover METAL already went to work making piperacks even during the structural works. Lybover INSTALLATION subsequently installed all the equipment and the welders worked with the greatest precision on the piping and skids. With 5,000 metres of piping, this is one of our largest piping projects ever.

step 4
END RESULT

Thanks to good communication between all contractors working simultaneously on the site, the brewery managed to be completed on time. An inspection by SGS showed that the welding work was done to perfection. In case of further expansion of its brewery, Brasserie St-Feuillien can continue to count on us.

AIR/METAL/RECYCLING

Pre-treatment of WEEE and dedusting

The Lybover way

Thanks to great trust, cooperation on this project went smoothly. Several Lybover business units joined forces and managed to set up an installation that met all requirements.

Lavergne, a Canadian firm specialising in the development of thermoplastics, landed in Belgium in 2021. When realising their turnkey recycling line, they were looking for a reliable partner to carry out the pre-treatment of e-waste. Hamos, a regular partner of Lybover and of Lavergne, was able to make a warm recommendation. The colleagues from Lybover RECYCLING and Lybover AIR joined forces to design and build a recycling line with dedusting.

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The question: reclaiming raw materials

Lavergne specialises in the design, development and production of high-quality durable resins (alloys and composites). “The aim is to further process and sort material from waste electrical and electronic appliances (WEEE) into granulates that Lavergne can reuse for its resins,” explains Werner Reinertz, Sales Engineer Projects at Lybover RECYCLING.

“Our task? Taking the first step in this process: separating the plastic from the ferrous and non-ferrous metals.” “Lavergne was looking for a total contractor for this,” picks up Lars Van Volsem, also Sales Engineer Projects at Lybover RECYCLING.

RECYCLING and AIR around the drawing board

“We feed the installation with an 8m³ dosing hopper,” Lars explains. “This can be filled directly with a wheel loader or with big bags. The material is moved within the installation with conveyor screws. We chose closed systems, as this is better for dust control and also prevents spillage.”

The first step is an overflow magnetic drum (barium ferrite) from our partner STEINERT. This attracts coarse pieces of iron and removes them. The material is then reduced in a crusher to finer grains, down to around 20 mm. A sieve provides an additional control. Finally, eddy currents and an overflow magnetic drum (neodymium) remove the non-ferrous metals.” Besides the recycling plant, Lybover also recommended Lavergne to install a dust abatement system. Lybover AIR was given that assignment.

From concept to end result

“Once the process was drawn out, we translated it into a 3D concept. The customer wanted the installation to be as compact as possible, so we looked for the compromise between size and accessibility,” Werner explains.
“After the thinking and building process, we do cold tests, without material. This way, we check that everything is running correctly. After that, we add the material and do a warm start-up. In a third step, we set up the separation machines. The customer can then see the final quality.”

> **"There was a nice synergy, both within the units and with the customer."**
>
> **Werner Reinertz,**
> Sales Engineer Projects Lybover RECYCLING

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At a glance

step 1
THE SPECIFIC SITUATION

For its brand new pretreatment, Lavergne was looking for a total contractor. The plant needed to further purify a pre-sorted residual fraction to produce a final product of plastic granulates. Thanks to a warm recommendation from our partner Hamos, Lavergne quickly gained confidence in Lybover.

step 2
THE UNIQUE IDEA

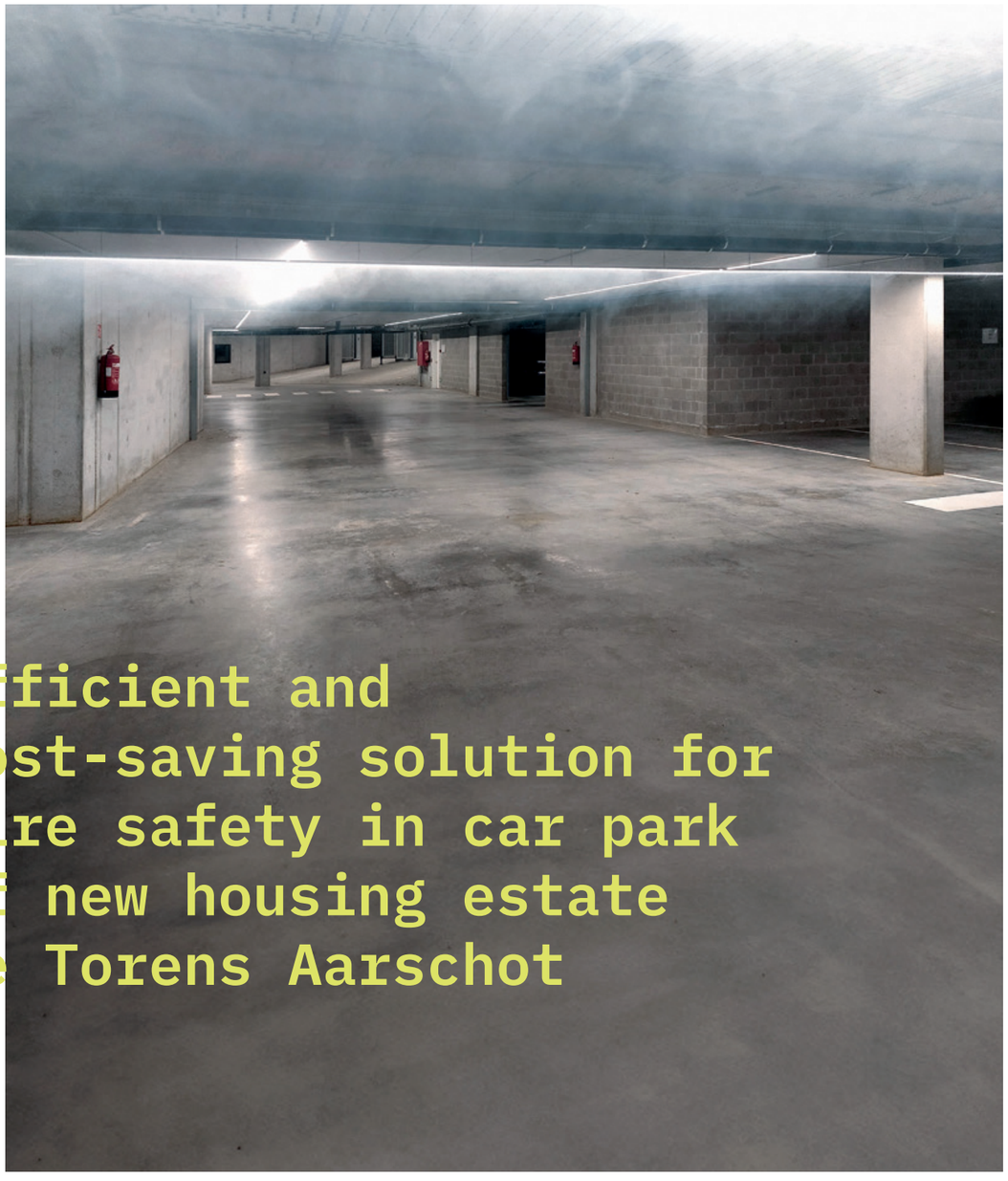
Lybover RECYCLING started designing the recycling plant and also recommended a dedusting plant to Lavergne. Lybover METAL and Lybover INSTALLATION also played an important role in this overall project.

step 3
UNDER OUR CARE

Lavergne could rely on a single point of contact for the entire installation. Cooperation went smoothly, both between the various unites within Lybover and with the customer.

step 4
END RESULT

Because of the experience with Hamos in Canada, there was a lot of confidence in our expertise. And also Lavergne had a lot of knowledge of industrial installations and actively thought along with us. This enabled us to achieve an end result that met all requirements.



Efficient and cost-saving solution for fire safety in car park of new housing estate De Torens Aarschot

Property developer and licensed contractor Dyls is a know player in the Belgian real estate sector. Lybover has also known the family business for some time. After previous pleasant collaborations, Dyls knocked on our door again for the new construction project De Torens in Aarschot. This new urban district includes a spacious car park with three levels, two underground and one above ground. Good for a total net surface area of almost 18,000 m². Lybover was responsible for the fire safety.

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The Lybover way

Proposing sufficient fire compartmentalisation and an SHEV system based on a thorough study. And thus ensuring that the expensive, prescribed sprinkler system was unnecessary.

From preliminary study to simulation

Lybover started from a preliminary study and ensured that, thanks to fire compartmentalisation and an optimised study of smoke and heat extraction ventilation systems (SHEV), the prescribed sprinkler system was not needed. A considerable saving for Dyls, especially considering the large surface area of the car park. Filip Van Meerhaeghe, Business Unit Manager - Head of Sales at Lybover FIRE: “We are increasingly finding that developers are no longer just calling in engineering firms in the early stages of a project, but also experts like us.”

Fire compartmentalisation and SHEV

To find a solution that reconciled technicality and aesthetics, we went with Dyls and the architectural team on an inspiration visit to Quartier Bleu in Hasselt, one of our previous realisations. “The choice fell on fire compartmentalisation with products from our partner Stöbich. Our colleagues at Lybover INSTALLATION ensured flawless installation. In the process, they installed an SHEV system with four strategically placed SHEV extraction shafts. Good for a flow rate of some 400,000 m³/h in the event of a fire. The installation should not only ensure smoke and heat extraction, but also optimal daily comfort ventilation,” says Jan Van Betsbrugge, Project Engineer at Lybover FIRE.

Looking ahead

This project has been ongoing since 2018. Stijn Vandenberghe, Business Unit Manager - Head of Projects at Lybover FIRE: “By anticipating, we were able to avoid price increases and ensure that the installation is already in line with future standards.”

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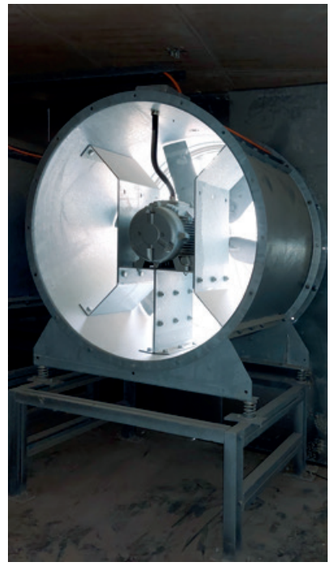

The SHEV system also provides daily comfort ventilation in the car park. An alternative to a traditional ventilation system.

At a glance

step 1
THE SPECIFIC SITUATION

Project developer Dyls needs a fire-safe solution for a parking garage in brand-new urban district De Torens in Aarschot.

step 2
THE UNIQUE IDEA

Based on a thorough study, we proposed sufficient fire compartmentalisation and a SHEV installation. As efficient and safe as an installation with sprinklers, but more price-conscious.

step 3
UNDER OUR CARE

The customer and official bodies gave us the confidence and together with the colleagues from Lybover INSTALLATION we installed the compartmentalisation and the SHEV installation.

step 4
END RESULT

Tests by the fire brigade and an independent inspection body demonstrate that our solution meets all defined safety criteria. The car park is completely fireproof.

Lybover opens hub in Beringen

From concept to assembly and service: as a one-stop shop, Lybover has built up a strong customer base at home and abroad from its branches in Waregem and Bruges and sales offices in France and the United Kingdom. The opening of the new hub in Beringen is an important milestone for Lybover. At a strategic location, the hub provides a central point to devise elegant solutions to the complex challenges of customers in the region.

Limburg is by no means unknown territory for us. Sorting household waste bags by colour at the Optimo sorting facility in Beringen? Smoke control and fire compartmentalisation in the underground car park and the shopping boulevard of Quartier Bleu in Hasselt? Dedusting for brick producer Vandersanden in Lanklaar? Design and installation of a sludge silo for Geo-Group in Geel? Central extraction for odour-free working with fewer emissions in the DAF Trucks axle plant in Westerlo? These are just a few references from projects in the region.

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Stronger together in our country and in Europe

At Lybover, we want to take our expert role even further and on an even larger scale. That is why we not only extended our Diamond Partnership with Denuo, but from 1 May 2023 for the next three years, we will also be Gold Sponsor of EuRIC. Denuo is the Belgian federation of the waste and recycling sector and has more than 200 members.

EuRIC represents the European recycling industry at EU level, making it the main voice of the European recycling industries. The European organisation represents the interests of nearly 5,500 companies, or more than 400 experts in 23 countries. This year, we also became a member of Flanders Metals Valley. In markets where complexity and quality are key, we feel right at home.

denuo

EuRIC
SPONSOR

A MEMBER OF
FLANDERS METALS VALLEY

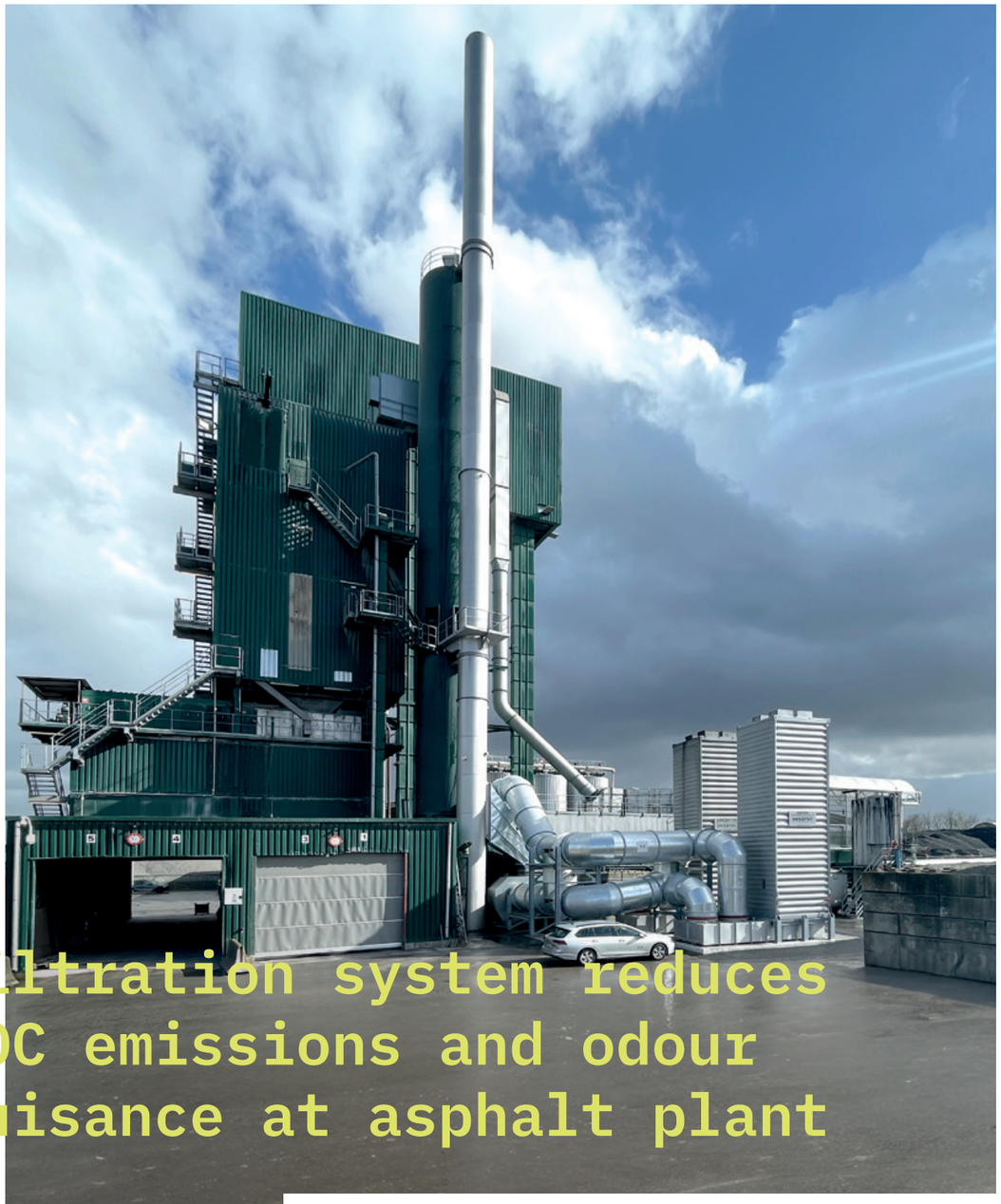
Lybover and Westeria: a winning partnership

At the beginning of 2023, Lybover and the German company Westeria joined forces in order to answer the most diverse questions about recycling and bulk handling within the BeLux market. With this cooperation, Lybover expands its offer in the field of windsifting, transport systems, dosing solutions and material spreading.

The exclusive partnership with Westeria is a clear win-win. Our German partner has more than 60 years of experience and is constantly developing new recycling machines and conveying systems for a valuable and profitable circular economy. Westeria supplies the technology and Lybover finds the right application and ensures integration based on a modern and agile engineering and project approach.

This partnership is part of a long tradition of cooperation. Thanks to the extensive portfolio of our technology partners, we can always offer a suitable solution for increasingly complex challenges. The right technology combined with our one-stop-shop approach, broad know-how and driven experts is a tailor-made formula for success. We are more ready than ever to turn visions into projects. Thanks to all our technology partners for their mutual trust.

AIR



Filtration system reduces VOC emissions and odour nuisance at asphalt plant

In their production process, asphalt manufacturers are increasingly using recycled asphalt. When these are processed, nuisance odours and VOCs are released. This was also the case at the Viabuild asphalt plant in Grimbergen. The manufacturer therefore asked Desotec to install an activated carbon filter. Lybover AIR provided an extension of the extraction and filtration systems. This was no first for our colleagues, but a project of this scale was a first for Belgium.

The Lybover way

By collaborating with Desotec, we offer our customer complementary expertise and a total solution.

The drying of recycled asphalt from old road surfaces releases fumes from the bitumen and residual rubber. These fumes cause odour nuisance and contain harmful substances known as VOCs (volatile organic compounds). The asphalt plant did have a dust filter, but an additional filtration system was needed. Desotec, a specialist in environmental technology, proposed a mobile filter with activated carbon and engaged Lybover AIR to extend the existing hot and cold air extraction and filtration systems. Both systems had to direct the loaded air to the mobile activated carbon filter and blow out the purified air again.

Complementary expertise in filtration

To demonstrate the effectiveness of activated carbon, Desotec first conducted a pilot project on a smaller scale. Then it was time for action. Filip Doucé, Hub Manager Beringen: “First of all, we had to determine the flow rates. We needed extra fan capacity to guide the air through the extensive pipe network. Ultimately, one system would move some 85,000 m^3 of air at 70° C from the dryer plant every hour. The other system would move 25,000 m^3 of air at room temperature from the truck loading area. With those figures in hand, we were able to size the plant.”

3D scan and total station for accurate assembly

One of the biggest challenges in this project? The very limited space for a substantial installation. “We first made a 3D scan of the plant and its surroundings. Based on that, we provided a three-dimensional design. This ensured that there were no conflicts. Then we used a total station to accurately and efficiently mark all anchoring points. We carried out the actual work together with our colleagues from Lybover INSTALLATION,” explains Thijs Van Lierde, Project Engineer at Lybover AIR.

Activated carbon filters: a necessity for asphalt manufacturers

The finished system with activated carbon filter ensures that odour nuisance and VOC emissions are now under control. “Similar projects will undoubtedly follow. Indeed, all asphalt manufacturers need effective air treatment if they want to remain compliant with standards regarding odour emissions and general emissions. Whether it is a completely new installation or an extension of an existing system, we are happy to take on the challenge,” concludes Filip Doucé.

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At a glance

step 1
THE SPECIFIC SITUATION

Viabuild is making more frequent use of recycled asphalt in its asphalt plant. It is looking for a solution to reduce the associated emissions of odours and VOCs.

step 2
THE UNIQUE IDEA

Desotec provides a mobile activated carbon filter and Lybover designs an extension of the existing extraction and filtration system. The aim: to direct air to the new filter and purified air discharge.

step 3
UNDER OUR CARE

Based on a 3D scan of the plant and a 3D design, Lybover AIR ensures that the large installation still fits within the limited space provided.

step 4
END RESULT

Odour nuisance and emissions of VOCs are under control. This large-scale project is an example for other asphalt manufacturers working with recycled asphalt.

LYBOVER

FIRE

Fire-safe buildings for Unilin thanks to a complete range of compartmentalisation systems

The Lybover way

For many years Unilin has been knocking on Lybover FIRE's door for fire-safe compartmentalisation of various sites and buildings in Belgium. Thanks to our versatile range, there is a solution for every challenge. We think along with the customer and guarantee a complete solution, all in accordance with the applicable EN standards (CE).

Unilin operates worldwide as a manufacturer of flooring, board and insulation materials. Brands such as Quick-Step, Pergo, Moduleo and Utherm are bound to ring a bell. Unilin has several locations: from production sites over office spaces to the brand new training centre The Dive. What all these buildings have in common? Fire-resistant compartmentalisation from Lybover FIRE.

Certified closures for conveyor belts: unique in Belgium

The collaboration with Unilin began about ten years ago. The company can count on Lybover for a complete range of compartmentalisation solutions. And with certified fire-resistant closures for conveyor belts, we are unique in Belgium. "In the production unit in Wielsbeke, the conveyor belts run through fire-resistant walls without interruption. This presented us with a challenge, because there are strict standards to ensure fire safety in such cases. Specific closures with the right certificate are needed. And we provide those," explains Jens Vandenberghe, Business Development & Agency Manager - Sales Engineer Projects at Lybover FIRE.

No gate too big

"In the sheet material factory in Oostrozebeke, we installed a fire shutter measuring no less than 8 by 5.4 metres. A shutter that large and that carries the appropriate certificate: that is not obvious. But we came up with a conclusive solution," says Jens Vandenberghe. "Furthermore, we provided a sliding gate, a fire door made the columns fire resistant." Unilin Panels' new main building in Wielsbeke received smoke screens in the atrium and a fire curtain for the kitchen. Jens: "Because

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FIRE

"The days when fire-resistant glass was not properly transparent are long gone. Today's products are fully transparent and ideal for modern, architectural spaces."

Jens Vandenberghe,
Business Development & Agency Manager - Sales Engineer Projects Lybover FIRE

of the limited space, we could not install an industrial gate. Instead, we opted for a compact curtain made of fire-resistant fabric through our partner Stöbich Brandschutz."

The Dive: fire-resistant and aesthetic windows and doors
With The Dive, Unilin opened a brand new and contemporary training and visitor centre. Also a new chapter in the story of the long-standing collaboration with Lybover. Indeed, the Lybover FIRE team was called in to install fire-resistant windows and glass doors in the building. The combination of the aluminum profiles and fire-resistant glass was tested and certified to a fire resistance rating of EI120. "It is not only a safe solution. The result has a contemporary look that visually matches the interior of the rooms," Jens explains.

Versatile
A major advantage for Unilin? That the company can order this wide range of applications for compartmentalisation from one party. "Moreover, we provide maintenance and repairs, also for products from other suppliers. So in that area too, Unilin only needs one point of contact," says Jens Vandenberghe.

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"With certified fireproof closures for conveyor belts, we are unique in Belgium. This is because these are subject to a different fire test standard than 'standard' fireproof gates."

Jens Vandenberghe,
Business Development & Agency Manager - Sales Engineer Projects Lybover FIRE

At a glance

step 1
THE SPECIFIC SITUATION

Several of Unilin's sites, each with their own challenges, equipped with fire-resistant compartmentalisation.

step 2
THE UNIQUE IDEA

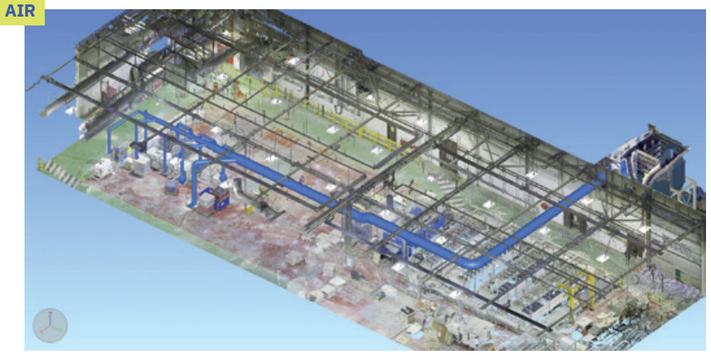
From very large fire gates to compact fire curtains, from fireproof closures for conveyor belts to contemporary fire-resistant glass windows and doors, Lybover FIRE's versatile portfolio has a solution for everything. With the help of, among others, our exclusive partners DFM & Stöbich Brandschutz.

step 3
UNDER OUR CARE

In close consultation with the customer, our colleagues ensure a safe and precisely finished compartmentalisation in accordance with the requirements of current Belgian legislation.

step 4
END RESULT

Fire-safe buildings and a pleasant cooperation that has been going on for many years.



With a total airflow of about 9,000 m³/hour, Lybover AIR connected the various emission points within the machine to the Keller Vario 3 dust filter. Thanks to KLR Bran filter plate technology, we achieve clean air emissions of <0.1 mg/Nm³ for lead dust.

The Lybover way

Going further than just fitting a dedusting filter. We think along and the customer knows where he stands. We show that we have the expertise without imposing our solutions.

Dedusting battery production: expertise and flexibility Lybover AIR convinces GS Yuasa

GS Yuasa Battery Europe, the largest supplier of lead-acid and lithium-ion batteries in Europe for more than 30 years, finds a partner in Lybover AIR to design dedusting systems for its manufacturing plant in Wales. The successful dedusting solution for a brand new cutting and brushing machine convinces GS Yuasa Battery Manufacturing UK to work with Lybover for a second order as well.

Our unique approach for dedusting a new cutting and brushing machine

The new, state-of-the-art cutting and brushing machine prepares the lead plates for the battery housings. The brief for Lybover? To improve lead dust extraction to meet stringent emission standards and create a healthy working environment for production workers.

“We soon came to the conclusion that the design of the cutting and brushing machine presented us with challenges. For example, the emission points were not quite correctly designed. So we explained very honestly and transparently why the exhaust hood was not designed correctly. We invested quite a lot of time and energy in that,” explains Paul Barrick, Managing Director Luksal (Lybover AIR UK).

The added value of 3D scanning from the design phase onwards

Soon Lybover AIR was invited to talk about a second project: a dedusting system for a battery cell production line. The challenge? Fitting the system neatly into the factory, taking into account existing equipment, utility lines and other obstacles. The solution? 3D scanning to make the installation visual. Moreover, GS Yuasa can use the renders in the future.

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LYBOVER

To meet the stringent emission standards, we chose 2 Keller PT 228 dust filters with the KLR Bran filter plate technology. Each of the 9 workstations on the production line has an airflow of 1 m/s from the operator to the dust filters.

At a glance

step 1
THE SPECIFIC SITUATION

GS Yuasa asked Lybover AIR to improve the extraction of lead dust from its brand new cutting and brushing machine for its production plant in Wales.

step 2
THE UNIQUE IDEA

Thanks to a careful analysis of the initial design, Lybover was able to provide support to GS Yuasa to redevelop some dust extraction elements to make the machine more efficient.

step 3
UNDER OUR CARE

Lybover was assigned a second, larger project: designing and building a dust extraction system for a battery production line. 3D scanning represented real added value here, both for ourselves and GS Yuasa.

step 4
END RESULT

A positive collaboration: a more efficient cutting and brushing machine as well as a future-proof production line for battery cells. GS Yuasa, meanwhile, is already making plans for subsequent projects with Lybover.

Start of sustainability project

To make the unique impact of the Lybover group tangible and demonstrable, this year we launched a sustainability project in collaboration with ir. Anouk Van de Meulebroecke. Together, we identified which sustainability themes are relevant to the group and what level of ambition we want to achieve. In doing so, we are working towards the first important milestone: a first audit within the framework of the Voka Charter Duurzaam Ondernemen.

Doing good business that's for sure! Good for the company, good for our employees and good for society. That was the main message in the Voka campaign this autumn.

LYBOVER

Innovation: measuring, plotting and double-checking with the technology of the total station

Besides 3D scanning and virtual reality, we are increasingly using total station technology to realise our projects. This surveying device allows you to measure, plot and check points. This makes it possible to measure larger distances between scanning positions or to plot points via the built-in telescope or by means of a prism.

This is particularly useful when working in existing setups, incorporating optimisations into existing lines and also as a control tool to prepare the assembly 100% precisely and accurately. Are the anchors seated correctly? Is the filter in the right place? Have the civil works been carried out as agreed? The total station tells you everything.

We used the total station at Viabuild. You can read the full story in this magazine. Thanks to the combination of 3D engineering, virtual reality and the total station, we work extremely accurately and even more efficiently. Did you know that we save up to 80% of our overseas project relocations thanks to virtual reality? In this edition of Lybover News, you can also find out more about our sustainability efforts.

Looking back on our family day

A family business without a family day? Of course not! On the 16th of September, we welcomed the families of our employees to our site in Waregem. What was on the programme? A visit to our offices and production, lots of snacks and drinks and a wide range of children's entertainment. Did we see the very first signs of decision anxiety among the little ones?

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