



LYBOVER

# news

11

Custom recycling line recovers precious metals

16

Fire-safe shopping in Westland Shopping Center

20

Renewi's valorisation hall reduces possible emissions to zero



## Room for growth

Filip and Hans Boels,  
CEO's Lybover

To avoid increasing delivery times, the warehouse in Waregem is expanding.

Our infrastructure and approach are also evolving to meet the needs of today and tomorrow. Recent investments include the electrification of our vehicle fleet and the visualization of projects in virtual reality.

Growth naturally brings a lot of challenges. This year we focused on mapping out and streamlining our business processes. The goal? To roll out the wave of digitalization as efficiently as possible.

All these new initiatives are part of the further development of our new organizational structure that we introduced in 2018 - with the introduction of the 6 Business Units and the Lybover group identity.

Thanks to clear branding and one central website, we have been communicating under the Lybover brand for some time. Short- and long-term strategy and priorities were also defined for each Business Unit. Thus, each Business Unit was given its own action plan. These plans will guide the future development of the Lybover Group.

Now that the foundations of a modern and secure IT infrastructure are also in place (Teams, SharePoint, Power BI and web applications in a Microsoft Azure environment), we are ready to streamline the business processes within our group. In this way, we want to support the group's growth and strategy in the best possible way. In time, we will not only work together more efficiently, report better and make decisions with more insight; our customers and prospects will also enjoy better service. Together with our technology partners - market leaders in Europe, we continue to expand our portfolio.

We are more than ever ready to turn your vision into a successful project.

Discover our finest achievements further in this issue.

**The Lybover Group continues to grow. And with the arrival of numerous new projects and colleagues, there is more than ever a need for space. The purchase of (additional) land and buildings anchored the Lybover group even more firmly this year in Waregem and Bruges.**



Editor — Katrien Verfaillie — BBC  
Photos — in-house photography, AG Real Estate, Jelle Jansegers, Marc Wallican  
Final editing and layout — BBC

### METAL/BULK

4 — Robust ducting for new filter by REAZN

### AIR

6 — Extensive dedusting installation for brand new flax plant

### METAL

8 — Omer Vander Ghinste expands with foodgrade piping

### BULK/RECYCLING

11 — Recycling metals with greater accuracy

### LYBOVER

14 — Students get to know Lybover at What's NXT VTI Waregem and VTI Kortrijk visit Lybover #ingenieursleur  
Lybover on the road

### FIRE

16 — Fire-safe shopping in Westland Shopping Center

### AIR

20 — Valorisation hall of Renewi reduces possible emissions to zero

### LYBOVER

22 — LyboVR - Bring your vision to life  
CE marking for fire-resistant exterior doors LyboPro

### FAIRS AND EVENTS

23 — Looking back on an inspiring year

4

Robust ducting for new filter by REAZN

### METAL/BULK



6

Extensive dedusting installation for brand new flax plant

### AIR



8

Omer Vander Ghinste expands with food-grade piping

### METAL



# Robust ducting for new filter by REAZN



REAZN Belgium, specialist in zinc recycling, replaces its three filter units and expands its capacity with one gigantic filter of about 33 metres high and 11 metres in diameter. Lybover METAL contributes by providing all ducting, structures and a piperack. On the same site, Lybover BULK installed a cleverly designed big bag filling station with four filling units.

**Construction in two phases**  
REAZN specialises in the recovery, recycling and re-industrialisation of zinc alloys. The company uses melting furnaces for this purpose. During combustion, dust and gases are released which are extracted to a filter via a pipe network. REAZN had three of these on its site. To comply with stricter environmental regulations and to be able to expand in the future, the three existing dedusting filters were taken out of service and replaced by one filter unit with a larger capacity.

“Lybover provided suitable ducting with a diameter of 2.5 metres. We did that in two phases”, explains Wout Decoutere, Sales Engineer Projects at Lybover METAL. “REAZN wanted to be able to commission part of the installation already so that the filter could be partially started up and tested. So, in the first phase, we installed the largest pipe and other connections needed for this. In the second phase, the slightly smaller connections followed. “

## Challenges and solutions

“In this project, we had to take many factors into account,” Wout continues. “The strength calculation was a complex task. Due to the great height of the structure, we first had to consider the wind load. The stress resistance of the pipes was also extremely important. Heat, wind load, pushing and pulling forces all have their influence. For example, the pipes discharge hot gases that cool down during transport. The finishing had to take this into account. A perfect seal was also needed. Another factor was the length of the pipes. They were not allowed to bend, and so on. “

The next difficulty was to place the new piping on top of the structure of the existing building. Thanks to 3D scanning, we immediately had the exact existing situation at our disposal to draw out the project.

## The Lybover way

We brought together various internal experts and talked to the right suppliers. So we supplied ducting, structures, a piperack and an important addition to the filter: a big bag filling station to collect and dispose of the filter dust.

In this project 3D scanning once again proved its great added value.

## Big bag filling station by Lybover BULK

For Lybover, the work did not stop with the installation of the huge ducting. Lybover BULK was also active on the REAZN site. They installed a cleverly designed big bag filling station. The filter dust from the extraction installation is collected there in big bags by means of screw conveyors. For this installation, we worked together with our regular German partner EMDE Automation, specialist in big bag handling systems and dosing devices for bulk materials.

In total, we installed four filling units at REAZN. They offer sufficient capacity so that they do not have to be changed constantly. In addition to sufficient storage capacity, the design also took into account smooth and safe operation. For example, the four big bag hooks on the filling units are pneumatic so that they fold away at the press of a button. This allows the filled big bag to be removed quickly and efficiently. The units were pre-assembled to reduce assembly time on site.

## An installation for the future

Today, REAZN is ready for the future with its huge installation. The installation flawlessly meets the stricter emission standards of 5 mg/m<sup>3</sup> and even goes a step further with an emission level below 1 mg/m<sup>3</sup>. The fact that Lybover was able to collaborate on such an ambitious installation also meant that we could once again expand our engineering horizons.

## More information?

Wout Decoutere  
Sales Engineer Projects -  
Lybover METAL  
wout.decoutere@lybover.be  
+32 497 82 65 35

Michaël De Baets  
Business Development &  
Agency Manager -  
Lybover BULK  
michael.debaets@lybover.be  
+32 476 88 24 26

## At a glance

step 1

### THE SPECIFIC SITUATION

REAZN Belgium installed one giant filter at their site in Kruisem. Lybover METAL accepted the challenge to provide all ducting, structures and a piperack.

step 2

### THE UNIQUE IDEA

Strength calculation, stress calculation of the pipelines, complex drawing work, 3D scanning ... Lybover did everything possible to tackle this project efficiently.

step 3

### UNDER OUR CARE

Strength calculation was extremely important to identify all risk factors and to deliver an installation that is robust, safe and sustainable. With the big bag filling station, designed and installed by Lybover BULK, we offer REAZN a total solution.

step 4

### END RESULT

The filter is up and running today thanks to Lybover ducting. REAZN now complies with current emission standards and is ready to respond to more stringent future measures.

# Extensive dedusting installation for brand new flax plant



Flax is becoming more popular again. Le Lin Français – Jean Decock noticed that too. In 2021 the flax processor therefore built a new factory near Laon in the north of France. They called on the expertise of Lybover for the dedusting and the pneumatic transport.

#### Efficient dedusting and pneumatic transport

In the flax industry large quantities of materials such as long fibres, tow, loam and waste are produced. When processing these materials, a lot of dust and production waste is released. By extracting this via pneumatic transport and providing general dedusting of the installation, the production process is not compromised and a pleasant climate in the production hall is guaranteed.

## The Lybover way

Providing a large new flax plant with effective dedusting? Le Lin Français entrusted this assignment to the knowledge and experience of Lybover AIR. The result: One of the largest dedusting plants in flax history.

“Lybover has previously installed installations for flax processing companies, the installation at Le Lin Français is one of the largest to date”, proudly explains Louis Schollier, Teamleader Projects at Lybover AIR. “We installed 5 filters in one go. At full capacity the installation moves about 330,000 m<sup>3</sup> of air per hour. This way, the production environment is kept dust-free and the employees can do their work efficiently. Much of the extracted dust is also recycled. Thanks to the efficient installation, only about 10-15% of the raw material remains as waste after the production process.”

#### 100% new installation

The whole site was new construction. Lybover AIR designed the entire installation from scratch using 3D models. The only restrictions were the dimensions of the building and the fact that sufficient height was needed for large passing machines.

“The new installation was built in two phases,” Louis explains. Both the production hall and the filter building were completely provided with dedusting and pneumatic transport by Lybover. The complete interior of both buildings was installed by Lybover: the steel structure, pipes, filters, fans and so on. For dedusting projects, most of the pipe work is assembled on the site itself. A Lybover INSTALLATION assembly team then comes on site to install the whole installation, made to measure and down to the last detail.

#### Large project, satisfied customer

This installation at Le Lin Français is one of the largest flax installations ever realised by Lybover. Thanks to the intensive follow-up and an experienced team of about seven colleagues (the project leader, technical designer and assembly team), the project went very smoothly. We were able to build a reliable installation and gained a satisfied customer.

#### More information?

Aurélien Truchassou  
Head of Sales France -  
Lybover AIR  
aurelien.truchassou@lybover.fr  
+33 6 83 88 24 78



## At a glance

step 1

### THE SPECIFIC SITUATION

Le Lin Français expands its activities with a brand new and large factory in Laon, Northern France. They ask Lybover AIR to build a dedusting installation from scratch.

step 2

### THE UNIQUE IDEA

Because the factory building was brand new, we first built the whole installation in 3D according to the virtual dimensions of the new factory.

step 3

### UNDER OUR CARE

The project took place in two phases. Both the production hall and the filter building were completely provided with dedusting and pneumatic transport by Lybover.

step 4

### END RESULT

In the brand new factory one of the largest dedusting installations in the flax industry is now running, with 5 filters. At full capacity the installation moves about 330,000 cubic metres of air per hour.

The entire installation was pre-drawn in 3D and is one of the largest ever installed by Lybover.

# Omer Vander Ghinste expands with foodgrade piping

## The Lybover way

In one of the biggest brewing projects to date for Lybover METAL, it all came down to accuracy and a high standard of finish. Thanks to secure preparation and a well aligned team, Omer Vander Ghinste was able to increase its capacity flawlessly.



A technically thorough offer with secure calculations and strength calculations: this is how Lybover METAL won the trust of Omer Vander Ghinste.

Omer Vander Ghinste is an established name in the beer world. The beer of the family brewery located near Kortrijk is very popular. Therefore, an expansion of the production was necessary. In a new building there was room for nine CCT tanks, with the possibility of expanding to twelve tanks. Lybover won the contract to provide the first nine tanks with hygienic piping.

### Everything in-house: from 3D scan to assembly

For the brand new CCTs (Cylindrical Conical Tanks), Lybover installed all piping, support of the piping with piperacks, instrumentation and pumps. "The CCTs are very important, because that's where the fermentation of the beer takes place," says Bram Gevaert, Project Engineer at Lybover METAL.

"In a first phase, we ran pipes from the existing building to the new one. Once a specialised firm had installed the tanks,

we could start on the second phase: the piping."

Omer Vander Ghinste preferred fixed piping at height. "That was definitely a challenge," continues Bram. "The pipes are very long and, moreover, they are often CIP cleaned (Clean In Place). Therefore, the stainless steel pipes had to be placed on sliding brackets. Because the heat causes a temperature difference which causes the tubes to expand slightly. The brackets allow this without putting any stress on the pipes.

To design the piperack efficiently, a 3D scan of the building was made. After the design, the piperacks were produced in-house and assembled on site by our own assembly team. Due to the preparatory work, everything could be assembled on site in a minimum lead time. "

### Great attention to cleanliness

The entire installation had to meet the highest finishing standards. Although the pipes are CIP cleaned, it is also very important that the inside of the pipes are

finished as smoothly as possible. After all, water, wort or beer passes through the pipes. In an uneven or dead space, organic material can accumulate and contaminate the brewing process.

"So you can't just use any kind of joint," Bram explains. "All the pipes must be ground, and the welding must be done very neatly. In order to check the quality of the finish of the welds, we carried out endoscopic examinations together with the customer at regular intervals. This high standard of finishing was nothing

new for Lybover. The exceptional thing was that it had to be done on a larger scale in this project. "

### Secure preparation and follow-up

In order to win this contract, the project team had prepared an extensive offer: technically in-depth with a precise calculation and a strength calculation for the piperacks. The customer could immediately see who would be doing what.



**“The practically designed piperacks with sliding brackets ensure that the pipes can expand safely.”**

**Bram Gevaert,**  
Project Engineer METAL

“The contact person with the customer was also someone with a great eye for detail,” says Bram. “That’s why our approach caught on and the cooperation went very smoothly. We worked with about 15 people on this project: mechanics from Lybover INSTALLATION, planners, the project manager and the technical designers. Overview and good communication are very important. On site there was also a good communication with our chief mechanic. The result was positive feedback and a satisfied customer. “And in the meantime, we have a new project on the horizon: piping for a new filter line.

**More information?**  
Bram Gevaert  
Project Engineer -  
Lybover METAL  
bram.gevaert@lybover.be  
+32 475 82 46 88



The long stainless steel pipe sections are supported by a piperack with sliding brackets so they can safely expand during the cleaning process.

## At a glance

### step 1 **THE SPECIFIC SITUATION**

Omer Vander Ghinste expands its capacity with a large installation of nine CCTs and asks Lybover to take care of the piping.

### step 2 **THE UNIQUE IDEA**

The size of the installation presented a particular challenge. Thanks to our thorough preparation and close follow-up on site, we were able to count on positive feedback from the customer.

### step 3 **UNDER OUR CARE**

To support the long pipes, piperacks with custom-made sliding brackets were provided. These sliding brackets also ensure that the pipes can expand safely. The welding of the pipes meets the highest standards of finish and has been quality-controlled several times.

### step 4 **END RESULT**

The high-quality finish of the piping and the practically designed piperacks play a crucial role in brewing even more delicious beer for Omer Vander Ghinste - and for us.

# Recycling metals with greater accuracy



In order to recover residual metals from incinerator ash more efficiently, Pre Fer Nord was looking for a partner to optimise their existing recycling plant. They turned to Galloo, a recycling company of ferrous and non-ferrous metals. They drew up the process and entrusted its realisation to Lybover.

### The right process and machine knowledge

The aim of the plant is to process incineration ash more efficiently. Stones, large and small pieces of metal are reduced in the plant to below a certain size. In a subsequent installation, the iron and non-ferrous particles (copper, aluminium, zinc, bronze) are recovered. The stone grit is reused in concrete, stabilisers or as an underlay for roads. The metals go to Galloo, where they are improved, purified and delivered to smelters.

In order to translate processes from paper to a working installation, Galloo has often relied on Lybover’s expertise. And with positive results. “We have the right process and machine knowledge in house and so we got the chance to build this installation too”, says Bart Vanpoucke, Business Unit Manager at Lybover RECYCLING.

## The Lybover way

**Thanks to our great product and machine knowledge, we were able to optimize Pre Fer Nord’s recycling plant. Thanks to the new plant ferrous and non-ferrous metals are now sorted even more efficiently and accurately. This also means that fewer materials need to be landfilled, and that’s always a win.**

**Tailor-made and extensively tested**

“The installation is completely customised,” explains Bart. “We will look internally and together with our partners at which machines are suitable for the process and for the specific material. Conveyor belts and magnets, everything is considered in function of the material. Knowledge of materials is therefore very important. We have that experience at Lybover.”

It is also very important to talk to the customer. “We have to understand what the customer wants. What material needs to be recycled? What information is available? What does the customer want to achieve with the material? We start working with that information. We simulate the entire process. We show the physical result of our tests to the customer and explicitly check whether that is the result they expect.”

“The project development went very smoothly. The cooperation between the project leader, design engineer, service engineer and mechanics went

very well. This enabled us to build a beautiful installation within the timing of one year. Even after the start-up, we stay in contact with the customer to see how we can support them with periodic inspections, preventive maintenance and spare parts.”

**Quality through long-term partnerships**

Lybover has a lot of experience in building recycling lines. For the machines themselves, we rely on a number of regular partners. “Steinert is a German company that builds separation machines,” explains Bart. “We have had a partnership with them for a long time. We work very closely together and often exchange information. This also allows us to offer greater performance and more extensive support. Spaleck, another German company, does everything related to vibration technology for transport and screening. We have also been working with them for a long time. So we know very well what their machines can do. So we are once again getting the maximum performance out of them.”



**“The better we understand what the customer wants, the better we can simulate the process and turn it into a reliable installation.”**

**Bart Vanpoucke,**  
Business Unit Manager Lybover RECYCLING

**“The fact that I can contribute to the better use of materials gives me great satisfaction.”**

**Bart Vanpoucke,**  
Business Unit Manager Lybover RECYCLING



For Pre Fer Nord, we implemented the recycling process, drawn up by Galloo, into a new recycling line fully customized. It sorts ferrous and non-ferrous metals even more accurately.

“At Lybover we make the conscious decision not to have our own test centre. It makes much more sense to do the testing at our partners. They are the experts for their own machines. We often invite the customer to these tests as well. From the very beginning, we have also been very open about the fact that we work with these machine partners. They are usually even present when the project is signed. We notice that customers really appreciate this. They do not like buying an empty box. The more information they get beforehand, the greater their confidence.”

**The evolution of recycling**  
Recycling has evolved greatly in recent years. “In each material category – metals, plastics, wood – we see an evolution towards more advanced separation,” Bart explains. “The evaluation of the separation process has therefore become very difficult. That is why we do so many tests and also work closely with the customer to create a customised installation.”

“At Pre Fer Nord, for example, there was an old system that was no longer up to current standards. The fact that there is now a completely new installation gives me great satisfaction. Every material that we don’t have to landfill is a win. The fact that I can contribute to the better use of materials is very important to me. At Lybover you really get the chance to become an expert in what you do. That freedom ensures that I am motivated and stay motivated. That is really fascinating and challenging.”

**More information?**  
Bart Vanpoucke  
Business Unit Manager -  
Lybover RECYCLING  
bart.vanpoucke@lybover.be  
+32 479 40 42 86

**At a glance**

step 1  
**THE SPECIFIC SITUATION**

Pre Fer Nord wanted to renew its existing recycling line. The new line sorts incinerator ashes even more efficiently and accurately. Galloo drew up the process and entrusted its realisation to Lybover RECYCLING.

step 2  
**THE UNIQUE IDEA**

Internally and together with our partners, we looked for the best set-up and suitable machines. The whole process is considered in function of the material. That material is extensively tested in test centres and we always consult the customer about the results.

step 3  
**UNDER OUR CARE**

The project development went very smoothly. The cooperation between the project manager, design engineer, service engineer and mechanics was also good. Within the timing of one year, we were able to build a beautiful installation. After the start-up, we continue to provide support with periodic inspections, preventive maintenance and spare parts.

step 4  
**END RESULT**

For Pre Fer Nord, we were able to build a modern installation, fully in line with current standards. More material can now be recovered and reused for new purposes. Every material that does not have to be landfilled is a win.

# Students get to know Lybover at What's NXT

In May, Lybover participated in the first edition of What's NXT, a three-day technology experience event, organized by MNM in collaboration with Voka West-Flanders, POM West Flanders, VRT, Radio 2 and Province of West Flanders.

Together with 61 other West Flemish companies and (knowledge) institutions we convinced the (West)Flemish youth of a professional future in West Flanders and the possibilities of a STEM diploma.

Lybover was given a place within the "Industry Baby" cluster,

where visitors could dive into the backstage of our (manufacturing) industry. Under the guidance of our own Architects of the Future students were introduced to the whirlwind projects of Lybover and discovered how we turn the ambitious vision of entrepreneurs into realizable projects. Using a VR setup, they were able to explore some of our projects in detail.

Thank you to our Architects of the Future for a successful event! Thomas De Bleser - Bert Taghon - Django Vroman - Thijs Van Lierde - Xavier Derycke - Jos Deleu.



# VTI Waregem and VTI Kortrijk visit Lybover

In March, students from the 5th, 6th and 7th year welding-construction and welding fitters from VTI Waregem and VTI Kortrijk came on a company visit. They got not only a tour of our production. On the basis of a VR-setup they could also take a virtual look behind the scenes of our whirlwind projects.

Thanks to Bert Taghon, Martijn Vandekerkhove, Gino Decaluwe, Maarten Govaert and Marino Decaluwe for sharing your knowledge and expertise to share.



The Lybover Architects of the Future convinced West Flanders' youth of a future in engineering.



Many engineers are tired of copy-pasting over and over again. They run out of energy and find no challenge in their current job.

# #ingenieursleur

Many engineers are tired of copy-pasting over and over again. They run out of energy and find no challenge in their current job. Our diagnosis? #ingenieursleur (freely translated as engineering drudgery). One remedy: apply for a job at Lybover.

With this message, we are aiming our sights on potential new employees with experience, but with a great lack of challenge. The #ingenieursleur campaign runs on social media and can be recognized by the funny memes and gifs. It is the successor of The Impossible

Job Application, with which we once again highlight why working at Lybover is so special.

Because at Lybover, we start where everyone else says "stop". When it really seems impossible. Because just then we find it worthwhile. Yes, complexity is normal for us and challenge is our drive. That's why at Lybover you get the space to completely unleash your know-how and together with your teammates achieve top technical performances. Do you recognize the signs of #ingenieursleur? Don't let it drag on, but hurry to [www.lybover.be/careers](http://www.lybover.be/careers)



# Lybover on the road

Our website was already redesigned. Now it was also time to take care of our fleet. Because you find us not only in Waregem and Bruges, but also on the road and on site, of course.

We said goodbye to the old eagle and welcome a modern and contemporary version. And you will also find our new slogan 'Turning visions into projects' on our fleet - because that's what our colleagues do day after day.





# Fire-safe shopping in Westland Shopping Center



## The Lybover way

Even in a large project with different stakeholders and logistical challenges Lybover continues to strive for the best finish. We were able to deliver all installations on time, inspected by the fire department.

“We started with one job and gradually tackled the whole site.”

Jan Lobbestael,  
Project Engineer Lybover FIRE

Some three years ago, AG Real Estate had a master plan ready to take Westland Shopping into the 21st century. The shopping centre was given a thorough renovation and expanded by more than half. In a place where so many people come to shop and relax, close attention to fire safety is essential. Lybover FIRE provided that with smoke control and fire compartmentalisation, at various points throughout the site.

### From a single job to an entire site

Lybover’s initial assignment at the Westland site was to install a SHE (smoke and heat extraction) system in the brand new underground car park. “As we gained some recognition with that assignment, additional requests gradually came in,” explains Jan Lobbestael, Project Engineer at Lybover FIRE. “For example, on the ground floor of one of the new wings is a Delhaize. There, in a second phase, we installed a fire screen EI(1)60, fire-resistant glass EI(1)60 and a large fire gate EI(1)120. These are flameproof for 60 and 120 minutes and isolate the heat. In the same shop, we installed fire-resistant

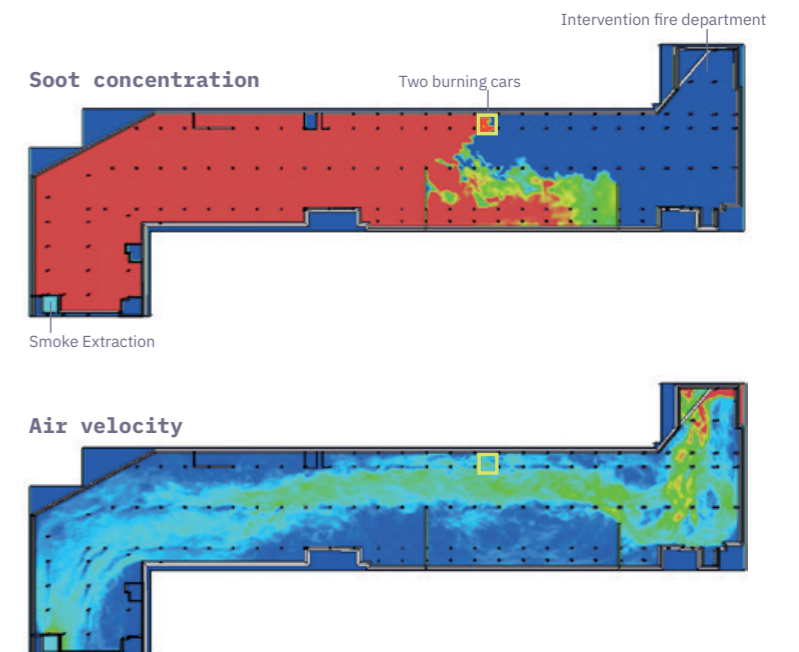
glass between the shop and the butchery and fish shop. Between the Delhaize and the existing building, we installed a large fire gate.”

The existing building also received a fire-safe update during the renovation with a smoke extraction system in the central hall. In a third phase, Lybover FIRE tackled the second new wing. “Ten large openings were made between the existing and the new building. We installed ten large fire gates. Inside the building, in the new shops, we also fitted smoke extraction systems,” says Jan. “This is a great example of a project where we started with one job and gradually tackled the whole site.”

### Wide range installed, thanks to our partners

“Here too, we were able to rely on Lybover METAL for metal structures and sheet metal work. Our partner LyboPro was responsible for the fire-resistant glass. For the wiring of the SHEV installation, we worked with an external partner. We install our components spread throughout the building.

With a CFD simulation, we can visualize the situation in the parking garage in the event of a car fire. This allows us to make a detailed design of the SHEV installation and fully optimize it technically and economically.





**“We installed pretty much all of our FIRE products in Westland Shopping Center.”**

**Jan Lobbestael,**  
Project Engineer Lybover FIRE

They connect everything and programme the installation according to our guidelines. We do the start-up together.” As the project gradually expanded, up to three times more work than first anticipated, Lybover FIRE ended up installing pretty much all its products in Westland Shopping. “In the car park and the superstructure, you will find smoke extraction and mechanical SHEV systems,” Jan explains. “In terms of fire compartmentalisation, you will find fire gates, fire screens and fire-resistant glass.” And yet most visitors will not notice all these solutions at all. The shopping centre, with an area of up to 50,000 m<sup>2</sup>, feels light and open. So in addition to safety, due attention was also paid to aesthetics and the shopping experience.

#### The challenges of a comprehensive project

A large project with many people involved and different types of work does bring some challenges. “It was a mixture of new construction and renovation,” Jan explains. “New construction is simpler because it is easier to plan. In renovation, you have to take into account the existing situation. In the central hall, for example, the false ceiling was replaced. There were already a lot of cables and pipes in there that couldn’t just be removed. For us, it is then a bit of a puzzle to fit all the new components in between.”

**“The collaboration between the different Business Units was once again outstanding.”**

**Jan Lobbestael,**  
Project Engineer Lybover FIRE

“Another difficulty was that the shopping centre remained open. So the works on the central hall had to be done in the evening and at night,” Jan continues. “Especially logistically, this did require some planning. On site, we were part of a well-oiled team, so we were able to deliver all installations correctly and on time, inspected by the fire brigade. And that is, after all, the most important thing for us, that people will soon be able to safely enjoy a relaxing moment.”

#### More information?

Jan Lobbestael  
Project Engineer -  
Lybover FIRE  
jan.lobbestael@lybover.be  
+32 474 19 51 00

The 4 extraction fans extract 550,000 m<sup>3</sup>/h of smoke in case of fire. Due to the presence of smoke control valves, the flow rate is extracted on the right floor. The wiring guarantees operation in the event of a fire for one hour.



## At a glance

step 1

### THE SPECIFIC SITUATION

Westland Shopping Center received a thorough renovation and was extended by two new-build wings. Lybover was approached by builder AG Real Estate for the fire protection of the underground car park.

step 2

### THE UNIQUE IDEA

Thanks to positive brand awareness, Lybover FIRE received additional orders coming in. The initial assignment in the underground car park quickly expanded to fire protection in the above-ground shops and central hall.

step 3

### UNDER OUR CARE

To complete all the jobs, three times more than first anticipated, we worked with all the parties involved, internal partners Lybover METAL and LyboPro, and an external partner for the wiring.

step 4

### END RESULT

Despite the many stakeholders and clients, the complexity of renovation and night work, Lybover FIRE was able to deliver all installations on time and have them inspected.



## Renewi's valorisation hall reduces possible emissions to zero

To reduce potential emissions from its valorisation hall to zero, the waste-to-product company Renewi sought a customized solution. The experts of Lybover AIR together with partner Desotec realized a sustainable project from concept to assembly.

### The Lybover way

To avoid emissions, it is first of all necessary to put the valorisation hall in underpressure. Lybover AIR identified 4 extraction points distributed over the width of the hall at the height of the roof. The suspended dust that previously remained in the hall is extracted at these extraction points.

#### Reducing emissions to zero

In the valorisation hall of waste to product company Renewi in Roeselare, organic waste materials are mixed in bunkers using an excavator. The same hall also houses a shredding installation where waste is mechanically reduced, with or without the addition of absorbents. The manipulation of these waste materials and absorbents can cause emissions of odour and dust. In order to eliminate any potential environmental impact, Renewi was looking for a tailor-made solution. Together with partner Desotec, the experts of Lybover AIR realised this sustainable project from concept to assembly.

#### PT filter and ATEX protection

Based on the emission measurements and a comprehensive examination of the actual situation, our engineers opted for a PT filter with constructive ATEX protection. A filter plate from partner Keller turned out to be the best solution here as it concerned very fine dust particles. The PT filter guarantees an emission of  $<0.5\text{mg}/\text{Nm}^3$ . The dirty air is drawn in through the top and then flows downwards over the filter elements. A self-cleaning filter is essential for continuous operation of the extraction. The filter plate is cleaned with compressed air pulses so that it can maintain its flow rate continuously.

Based on emission measurements and an extensive study our engineers chose a PT filter with constructive ATEX protection.

Since the dust extracted is potentially explosive, the appropriate ATEX components were also used so that no explosion can be created in the filter. Due to the high filter efficiency, the activated carbon filter is hardly burdened with dust particles. The activated carbon filter eliminates odour emissions in a final step.

#### Extra attention to piping

Special attention was also paid to the piping. Because of the changing composition of the extracted dust particles, the pipework was provided with hot-dip galvanised sheet material. The complete project preparation, assembly work and commissioning was carried out by Lybover AIR.

#### More information?

Frederick Thoma  
Business Unit Manager -  
Lybover AIR  
frederick.thoma@lybover.be  
+32 479 98 28 37



### At a glance

step 1

#### THE SPECIFIC SITUATION

Measurements show that the mixing of organic waste can potentially create environmental nuisance in and around Renewi's valorisation hall.

step 2

#### THE UNIQUE IDEA

By combining a PT filter from Keller with an activated carbon filter from Desotec, Lybover AIR guarantees maximum reduction of dust and odour.

step 3

#### UNDER OUR CARE

After validation of the concept, the project is carried out by our own VCA\*\* certified technicians.

step 4

#### END RESULT

Renewi can continue operations at the Roeselare site without any environmental impact.

"The combination of the chosen filter techniques allows us to continue our activities without causing odour or dust nuisance to the surroundings."

**Benoit Singier,**  
Manager Treatment, Renewi

# LyboVR - Bring your vision to life.

3D scanning is here to stay. It is a fast and accurate way to collect data about an existing situation. Combined with 3D design tools, they ensure that new designs accurately connect to existing physical installations.

After years of experience with 3D scanning and engineering, Lybover this year took another important step forward: the visualization of 3D models and point clouds in virtual reality (VR).

In this way, 3D models are brought to life and we turn your vision into a realizable project.

## Your advantages

- The visualization in virtual reality provides for a better understanding. So you experience each design down to the smallest details.
- You don't just look at the design, you really feel it. Because of the complexity of the Lybover projects, this is a great added value throughout all project phases, from concept to assembly.
- Together we verify the impact on your production environment. Possible problems are immediately felt even before the project is built. So you can easily check the accessibility of devices and instrumentation with your virtual hands or inspect possible safety problems.
- On foreign projects, we save time and money by meeting and collaborating with customers in virtual reality. Internal visualization in VR also provides better coordination between the Lybover teams.



### Interested?

Get in touch with your usual contact within Lybover, we will be happy to help.



## CE marking for fire- resistant exterior doors LyboPro

As of November 1, 2019, the new product standard EN 16034 is in force and fireproof gates and fire-resistant external doors must be CE marked.

With every extension of the range of fireproof solutions within the Lybover group, quality and reliability are paramount.

Our experts therefore follow legislation closely, ensuring that our products meet all legal requirements in terms of safety, health and environment.

The fire-resistant exterior doors of LyboPro have also received approval for CE marking after a successful audit.

With production and professional advice LyboPro is more than ever your specialist in aesthetic fire resistant partition walls, windows, doors and facades.

## Looking back on an inspiring year

### MARCH

22/03

#### Basic training Denuo (Lybover - Waregem)

Our partner Denuo again gave a basic training course on the Belgian waste and recycling sector. Participants were given an overview of the legal provisions, the financial and administrative aspects and much more.

23 & 24/03

#### Pumps & Valves (Antwerp)

Lybover METAL participated in THE trade fair for industrial maintenance, shutdown technology, asset management and production reliability.

### APRIL

27 & 28/04

#### Bedrijvencontactdagen (Kortrijk)

Lybover was present at the biggest b2b network event of Belgium, together with fellow exhibitors INNI and Top Motors

### MAY

23-25/05

#### BIR (Barcelona)

Frederick Thoma, Business Unit Manager at Lybover AIR, was asked to speak at the Bureau of International Recycling Conference in Barcelona. He talked about how we implemented several clean air solutions to meet European emission limits.

30/05

#### Ifat (Munich)

Our partner STEINERT showed their smart digital recycling solutions at their booth at IFAT, the leading trade fair for water, sewage, waste and raw materials management.

### JUNE

22/06

#### PRS (Amsterdam)

At the Plastics Recycling Show Europe we joined our partners Hamos Recycling- und Separationstechnik and STEINERT to show the latest technologies in the field of plastics recycling.

### OCTOBER

19-26/10

#### K-2022 (Düsseldorf)

At the K-Messe, all of the recycling innovations in the plastics and rubber industry were discussed. The ideal opportunity to discover all opportunities, both at our partners hamos, Keller Lufttechnik and STEINERT, as well as at more than 3,000 other leading companies.

24-30/10

#### Bauma (Munich)

At the 33rd edition of the World's Leading Trade Fair for Construction Machinery, Building Material Machines, Mining Machines, Construction Vehicles and Construction Equipment, a lot of our partners were present. AUMUND GROUP with AUMUND, SCHADE and SAMSON, as well as EIRICH had a booth there. The ideal operating base for Lybover RECYCLING and Lybover BULK.

25/10

#### Fireforum Congress (Brussels)

At this congress on fire safety Filip Van Meerhaeghe, Head of Sales at Lybover FIRE, spoke about SHE in closed car parks as a basis for the future NBN S21-208-2.

### NOVEMBER

9/11

#### Iedereen Circulair (Lybover - Waregem)

On the website iedereencirculair.be, Group Casier, like us also partner of Denuo, presents circular initiatives from different sectors, such as the story of Lybover. In our Boels²Box, all these actors were able to meet, to discuss cases and product liability within the circular economy.

17/11

#### Salon de la Copropriété (Palace 10 - Brussels)

During the Salon of the Co-ownership, aimed at syndicates and co-owners, Lybover FIRE presented for the first time its offer and service expertise: annual inspections, preventive maintenance, fire compartmentalisation, SHE system,....



Oude Kassei 16, 8791 Waregem

+32 56 67 10 40

info@lybover.be

www.lybover.be