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MATERIALS MANAGEMENT. RECYCLING.  
WE CLOSE THE LOOP.

# RECYCLING OF RECYCLABLE MATERIALS

## Experience and flexibility

**We have the experience and flexibility to find solutions to complex problems.**

We are a family-run recycling business. We have been collecting and recycling recyclable materials for 100 years, thereby conserving nature's resources and doing our part to protect our planet. As a recycling expert, we are committed to closing material loops. We are primarily a partner to corporations, municipalities, the trade and commerce industry, and dual systems.

Our services include collection, transport, processing and the delivery of high-quality recyclate. With innovative techniques and in-house technical know-how, we are constantly finding new ways to reuse and recycle, which is central to our mission of building an innovative recycling chain. With twelve Germany-based and six international locations, we are one of the most holistic recycling companies in Europe.

## Our business segments



GLASS



PET



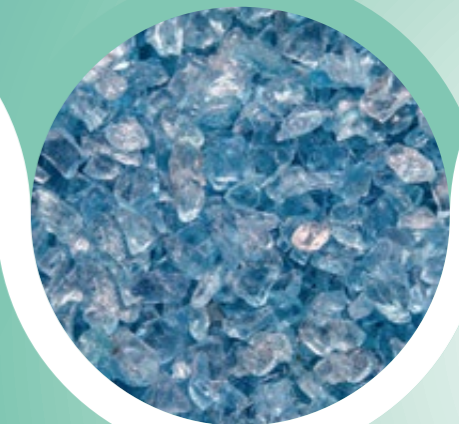
PHOTOVOLTAICS



WOOD



FOAM GLASS



REVITRO

We offer collection, transport and recycling services, deliver high-quality recyclate,

and produce and market Revitro and foam glass gravel.

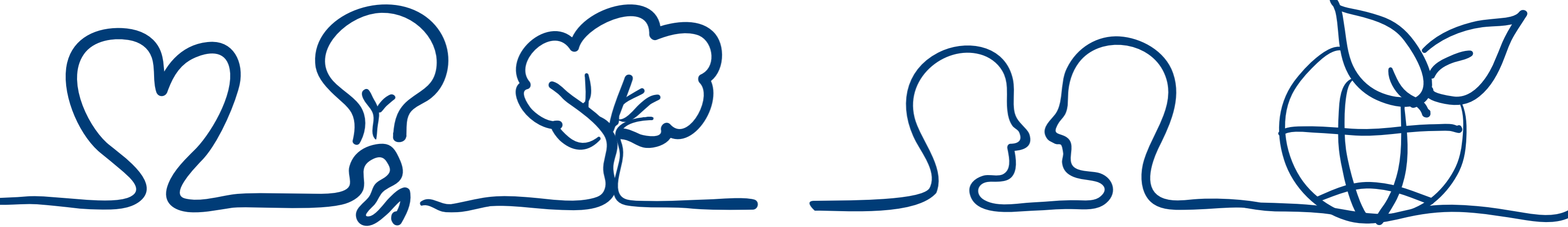
FAMILIAL  
SOCIAL

INNOVATIVE  
FUTURE-ORIENTED

COMPETENT  
GROUNDED

RESPONSIBLE  
FAIR

CONSCIOUS  
ECO-FRIENDLY



# VALUES OF REILING GROUP

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## Company profile

Our values shape every aspect of our group and guide our day-to-day actions and the way we deal with our business partners and employees.

Despite our ever-growing size, we continue to be a classic family-owned business, with the 4th generation now at the helm. Of that we are very proud!

Our contribution and our obligation to the common good is what drives us.



# RESPONSIBILITY

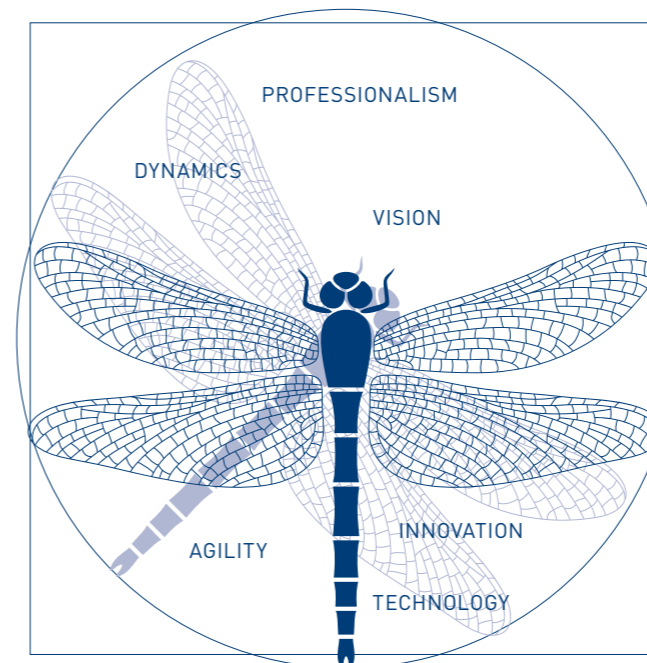
# ENVIRONMENTAL PROTECTION

## Sustainability is the future.

Sustainable thinking drives the Reiling Group. Environmental responsibility is one of our central missions and at the forefront of all of our business decisions and day-to-day actions..

Protecting our planet and reducing our use of natural resources requires the collective effort of all of our employees. This awareness is firmly anchored in our business policy and corporate philosophy.

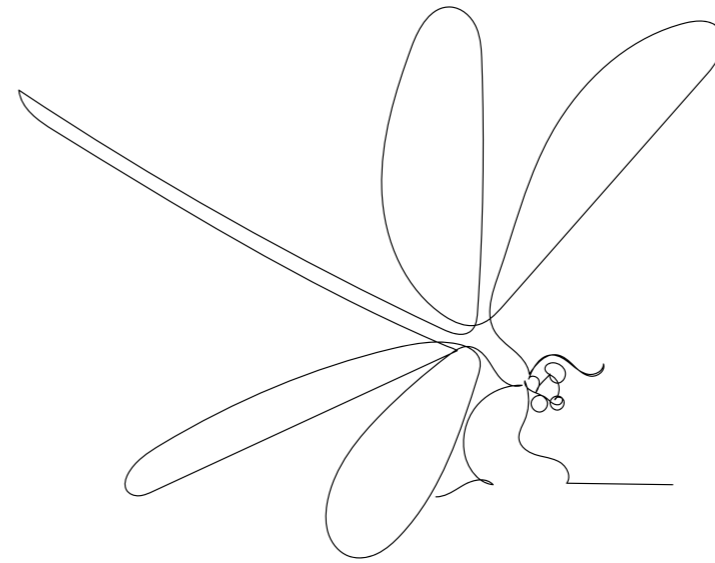
Where possible, we use renewable energies throughout the company. For instance, a significant step we have taken in reducing our impact is taking our innovative cogeneration plants for the generation of energy and heat online and installing our own photovoltaic systems for generating electricity. Our responsibility for the environment and the efficient use of resources is reflected in our intelligent energy management system (DIN ISO 50001 certification).



One of nature's many wonders, the dragonfly, our symbol for:

Green and local thinking, dynamics and professionalism, future orientation and agility, innovation and technology.

We are committed to environmental protection and take a forward-looking approach in all that we do to preserve biodiversity.



# QUALITY AND INNO VATION

## Recycling of recyclable materials

We do it all: From collection to processing to the sale of the products made using recycled materials. It is a one-stop shop advantage when it comes to quality control and transparency.

For Reiling, high-quality products and innovative thinking go hand in hand. Throughout our company's history, we have often set research and development in motion, have leveraged in-house methods and techniques to drive new recycling business, and have constantly improved our processes. To ensure the quality of our services, our integrated management system has been geared towards internationally recognised standards and has been certified accordingly (DIN ISO 9001).

Our management guidelines provide the basis for sound planning and implementation of our corporate objectives in the areas of technology, quality and environment. With the development of our very own, modern treatment plants and in our effort to increase the use of secondary raw materials, we strive to go full circle, while protecting our planet and enabling premium quality.

# SEGMENT CONTAINER GLASS

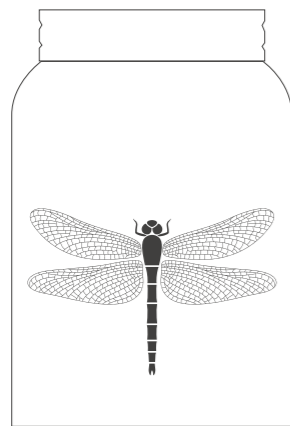
## Cullet becomes new glass

White, green or brown – as long as the used glass is sorted by colour. We are a full-service business, from needs-based collection and transportation to treatment and delivery of high-quality recycle.

Container glass, in particular, can be recycled indefinitely and can be fed back into the circular economy again and again thanks to our state-of-the-art recycling processes. Together with our corporate, industrial, municipal, and dual-system partners and customers, we are doing our part in protecting the environment and conserving our natural resources.

With 10% of our recycle in the batch, savings of up to 3% in energy and 5% in CO<sub>2</sub> can already be achieved.

As one of the market leaders in Europe in the container glass segment, we offer the glass making industry recycle for remelt. We achieve the high quality in terms of purity, fine grain content and colour sorting by continuously advancing our processing techniques. We will take care of the logistics for you and will deliver on schedule.

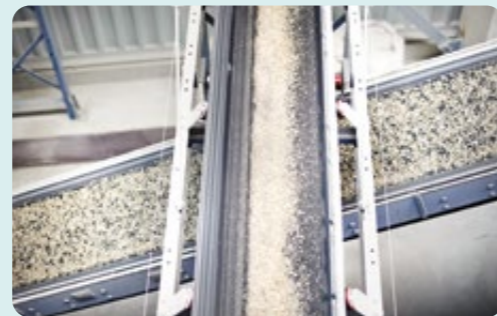


### COLLECTION

*We're exactly where you need us! Besides setting up containers for the most common types of glass, we offer reliable, regular recycling collection. Or, you can schedule a pickup. We will also provide documentation for the recycled glass quantities.*

### TREATMENT

*We work with state-of-the-art technology. Whether you have a need for fine grain or colour sorting or are dealing with unique chemical compositions, we tailor our services to fit your individual needs and guarantee solution-driven results.*

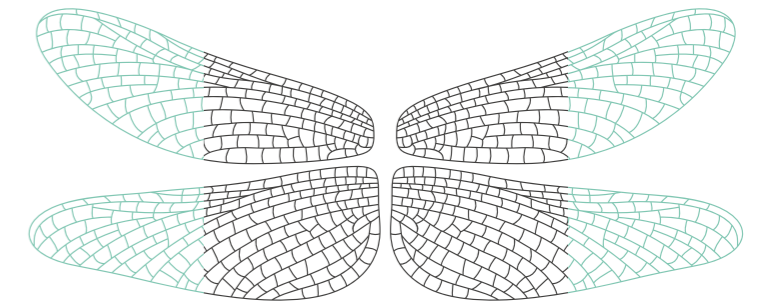


### END PRODUCTS

*The recycle meets the specifications of the glass manufacturing industry. We carefully sort it and run tests to ensure it meets the high quality standards.*

*The recycle is clean of impurities like CSP, ferrous and non-ferrous metals, glass-ceramics, glass containing lead and organic matter. Different particle sizes are available.*





# SEGMENT FLAT GLASS

## Recyclable without loss in quality

By collecting and recycling waste glass, we and our partners can consistently cut carbon emissions and responsibly use our available natural resources.

We collect flat glass from industry, trade and commerce. Accurate sorting is crucial for the best possible processing result. For the collection of the different types of waste glass, such as float glass, laminated glass or insulating glass, even special glass or mixed glass fractions, we offer our partners customised container solutions.

We deliver best quality using state-of-the-art treatment technology, which meets the highest quality standards of our partners. Our recyclates, which are free of impurities, can be reused as a secondary raw material in the various glass industries and in almost every melting application to add value.

Partnerships with our customers are a priority to us. We are at your service with a range of services - disposal logistics, container leasing, personal on-site consulting, and recyclate delivery including comprehensive documentation and verification.





# SEGMENT REVITRO

## A versatile material in fascinating colours

Revitro is a 100% recycled product. Simply put, our end product is made up of the material that we received from our customers for glass recycling.

The colour plays an important role here. The prerequisite for the luminosity and cool tones of our end product is the high-purity colour of the input material.

That is why strict sorting of the material by colour in advance is one of the most important requirements for a flawless product.

## Recycling: One idea ahead

What can be created from waste is always a question of creativity and courage.

At Reiling, we are always on the lookout for new ways and possible uses. This is how we create products with amazing potential. We hope you will be inspired by our ideas.

### REVITRO IS VERSATILE

It will transform your landscaping and design:

- *Flower beds and outdoor paths*
- *Decorative accents*
- *Parking lots*
- *Garden accent*
- *Durable, long-lasting rooftop design*
- *Eye-catching trade fair booths*
- *Barefoot trails and more*





# SEGMENT PHOTO VOLTAIC

## COLLECTION

*The legally compliant collection and sorted recycling of valuable module components pose significant challenges at the end of the life cycle. We dedicate ourselves to this task with great commitment and the highest level of professional know-how, bringing more than 15 years of PV recycling experience to the table. We accept all types of silicon-based photovoltaic modules at four locations in Germany, each certified according to the Electrical and Electronic Equipment Act: Marienfeld, Torgau, Osterweddingen and Münster.*

## TREATMENT

*Highly specialised solutions are required to separate the permanently fixed components and materials of the PV modules by type. As a certified primary treatment plant, we guarantee the best possible results and the highest quality standards. The multi-stage treatment process starts with a shredding stage, followed with processing and separating recyclable materials for their return to the materials cycle.*

## END PRODUCT

*Glass, the main component of PV modules, is the most recovered secondary raw material from end-of-life PV modules. However, other materials such as aluminium are also efficiently recovered for high-tech applications. Continuous improvement of the recycling process and the use of state-of-the-art sorting technologies allow us to meet the high quality requirements for the recovered secondary raw materials.*

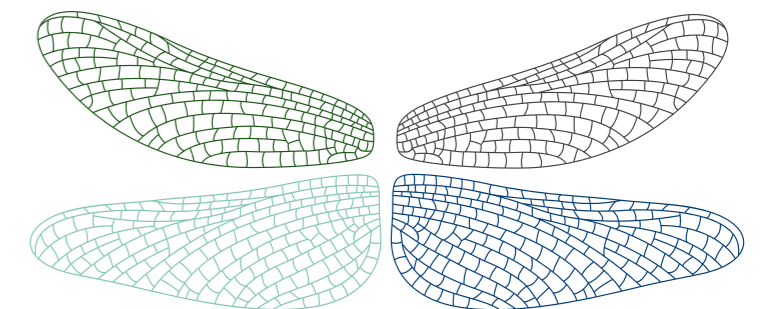


## Future-driven end-of-life concepts

Since the 2000s, the growth rate for power generation from photovoltaic systems in Europe has been significant. PV modules have an operational lifespan of roughly 20 years and are a clean source of energy, thereby contributing to mitigating climate change during this time. With our innovative recycling technologies, we want to ensure the sustainability of silicon-based modules by disposing of them in accordance with the law.

While glass is the main secondary raw material recovered during the recycling of PV modules, we also recover other valuable materials, such as aluminium, saving primary raw materials and energy in the process. We issue any necessary recycling certificates and offer our customers future-driven end-of-life concepts.

In our effort to constantly improve and advance our recycling processes, we are actively involved in various research projects and closely collaborate with our partners.



# SEGMENT PLAS TIC



## PET – A recyclable material for new products

We provide reliable full-service solutions for PET recycling across Germany. From collection to treatment to the high purity of the recyclate, we ensure that we help close the recycling loop properly.

We provide food and bottling companies with a range of needs-based, comprehensive and tailored modules for PET bottle collection, including dumpsters, PET press machines and mobile briquette presses, self-disposal systems and isolated solutions. We also provide just-in-time collection!

During the subsequent treatment, we ensure a high purity level of the recyclate. In addition, the high quality of our recycled material is checked by internal quality control. PET flakes can be used for numerous purposes such as the manufacturing of new PET bottles or production of polyfibres or as polyester film in the food industry. As a rule, the flakes are delivered in so-called Big Bags; for large quantities, the alternative is to have bulk trucks deliver silos.

### OUR QUALITY STANDARDS

**Purity:** mostly free from impurities such as labels, wood, foils, polyamides, POs, metal and rubber

**Colour distribution and content:** Defined by the quality requirements of the customer

### WE MONITOR

- Bulk density
- Incorrect colours
- Glue residue
- Foreign plastics
- Impurities
- Particle size distribution
- Moisture





# SEGMENT WOOD RECYCLING

## WOOD TO REILING

Every year, we collect, sort, clean and recycle more than 100,000 tonnes of industrial and private wood waste (category AI to AIV).

We don't view wood waste as waste, but as a valuable secondary raw material for the particle board industry and an energy source for power plants. Although wood is technically not a finite resource, Earth's most important carbon reservoir should still be used wisely, now more so than ever before. In the spirit of sustainability, Reiling has made it its business to recycle reusable wood waste and to close the loop.

After the incoming wood is examined, it is cleaned, chopped and shredded. The wood chips are then loaded for transport. Depending on the customer's requirements, our plants can produce a range of chip sizes. We ensure high safety standards through outgoing controls and lap tests.

*To ascertain whether wood waste can be recovered for re-use depends on how contaminated it is, i.e. if it has been treated with toxic substances or has been painted. We ensure high safety standards through outgoing controls and lap tests.*

### COLLECTION SOURCE:

*Post-industrial and post-consumer wood waste, bulky waste*

### BUYERS:

*The particle board industry, heating plants and power plants*



### END MATERIAL:

- Wood chips for the particle board industry
- Wood chip utilisation for thermal power plants or for energy recovery in biomass-fired co-generation plants
- G30 wood chip specification, for heating plants/small-scale plants for heat production





# SEGMENT FOAM GLASS

Our newest segment -  
innovative and “self-made”

#### THE BENEFITS OF FOAM GLASS GRAVEL:

- 100% recyclable
- environmentally friendly
- excellent energy balance
- lightweight
- excellent insulation value
- compression resistant
- saves time and money
- resistant to rotting and aging
- chemical resistant
- frost resistant properties  
(even to extreme temperatures)
- non-combustible
- waterproof, breathable, capillary break
- resistant to bacteria and rodents

#### APPLICATIONS:

**In building construction:** as a perimeter insulation substrate, slabs, underground garages, garden and landscaping, and floor renovation in old buildings.

**In civil engineering:** Thermal insulation of utility lines with little soil cover and drainage.

**Transport construction:** Light, load-bearing backfill for retaining structures, backfill for bridge abutments, dam construction, base courses.



Foam glass is a new business segment for the Reiling Group. We produce the innovative product in-house and distribute it throughout Europe.

Foam glass is all about its excellent energy balance: The amount of primary energy needed for its production is 15% less than for XPS. Its product properties make foam glass gravel ideally suited for a wide range of applications and it is therefore used as perimeter insulation under floor slabs, as an insulating material in structural and civil engineering and for special requirements in road construction or, for example, on green roofs.

Foam glass gravel is the only insulation material that can be installed as lightweight fill, saving considerable time compared to board insulation. Overall, the product is a more environmentally friendly insulation option (compared to oil-based insulation materials such as XPS).

We manufacture the foam glass gravel at our plant in Husum. With 16 depots spread throughout Germany, we can offer nationwide proximity to our customers and short transport routes.

# SERVICE AND LOGISTIC

## FULL-SERVICE PROVIDER

Reiling collects, treats, stores, manufactures, designs, advises ...

With such a comprehensive range of services, we are unlike most companies in the industry.

Do you have a pile of rejects cramming your warehouse? Or mountains of old material to dispose of? Or, if you have other special requirements, just give us a call - we'd be happy to walk you through our services and provide individually tailored solutions. You can count on us to be a reliable partner and trust our years of recycling experience. We also provide on-site support to collaborate on a solution that suits your needs and takes a holistic approach to waste disposal.



### COLLECTION

We offer versatile collection systems for municipal collection or container services..

*Whether you need a particular size container or dumpster or a mobile PET press machine – we will find the right solution for you, either as a temporary or a permanent setup.*

*Our network of service locations means means short distances and fast communication. We have an efficient fleet of vehicles that we bundle with professional logistics solutions. We also prioritise the safe and reliable loading of raw materials of the highest quality in procurement logistics, delivering our high-quality recyclate, on schedule or on short notice, which we can manufacture according to our customers' specifications.*





# REILING COMMERCIAL VEHICLE SERVICE

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As an authorised partner of Scania, Miller and Palfinger, Reiling and its commercial vehicle service company are there for all your servicing and maintenance work needs, taking care to follow manufacturer specifications, or for your design considerations and the construction of special vehicles. We also specialise in vehicle, dumpster and container construction.

## Servicing and maintenance

As your partner, we cover the costs for repairs of trailers, tipper semitrailers or superstructures, containers and dumpsters - so you can worry less and concentrate on what matters. Our full service includes statutory vehicle inspections, bodywork, paint jobs, blasting and galvanising. We also offer 24-hour emergency assistance and a diesel gas station that is open 24/7.



## Special vehicle construction - We have the solution to your individual needs

Our team of highly qualified specialists plans and builds special vehicles tailored to your ideas and needs. Drawing on more than 25 years of experience and a high level of expertise, paired with continuous training and development plus state-of-the-art equipment, we guarantee a high professional standard that is reflected in our quality of work.



# SOCIAL RESPONSIBILITY AND ENGAGEMENT

Our corporate responsibility is based on our commitment to our employees, our environment, and the society we live in.

We have shown our dedication to the youngest members of our community for years now and have been supporting projects such as the new Bethel children's hospital wing in Bielefeld or funding non-profits such as ARCHE in Hamburg. We are also big believers of thinking local and give to sports clubs, kindergartens and schools in the region.

We regularly help with local tree-planting campaigns or organise our own reforestation projects at our company locations.



## AID FOR TOGO

In 2019, we launched a special project together with the bvse network: *With the support of our company, numerous other businesses, and the invaluable work of the bvse network, the project „Introducing a waste management system to Togo”, an idea created by Togolese bachelor student Sanvi Sodji, received the necessary support. Two of our retired garbage trucks and 750 waste containers were delivered to West Africa, with the first waste collection campaigns already underway. The goal is to continue to advance the project in the future. This useful project is a small but important step forward to tackling the pressing global environmental issues at one of its many roots.*



*In addressing our employee's childcare needs, we have set up an on-site day care centre for the children of our staff members at our headquarters in Marienfeld.*



*Short-term relief for people in need: In 2021, we aided flood victims in the Ahr Valley by contributing cash donations, animal feed and equipment (e.g. excavators, dumpsters and more).*





*Pictured above: Bernhard Josef Reiling, who received a trade licence for travelling salesmen around the turn of the century and started trading in raw materials using horse-drawn wagons.*

*Pictured below: Manual sorting on what was a state-of-the-art assembly line for the time.*



# HOW IT ALL STARTED

## A common goal spanning 4 generations

It all began in Wiedenbrück, Germany. In 1900, Bernhard Reiling, the great-grandfather and grandfather of today's owners, applied for and received a trade licence specific to travelling salesmen and started trading in raw materials using a horse-drawn wagon. Later, his son Konrad followed in his footsteps and brought "Reiling Rohstoffhandel" into the 1950s, despite years of turmoil during the war and the atrocities of the Third Reich.

### ONE-PERSON BUSINESS

In 1957, Konrad Reiling's son Bernhard and his wife, Margret, founded their own business in Gütersloh, specialising in waste glass trading. As a one-person business, Bernhard Reiling collected waste glass from flat glass processing commercial enterprises and from the beverage industry, selling the material to manufacturers of hollow glass.

### FIRST WASTE GLASS COLLECTION CONTAINER

Soon the idea was born to collect used glass not only from companies but also from households. In 1970, the company's first glass recycling container was set up in Gütersloh, into which citizens would toss their single-use glass. Reiling quickly and systematically expanded its container network beyond the Marienfeld site to include about 120 towns and communities in North Rhine-Westphalia and the south of Lower Saxony.

### BUSINESS EXPANSION AND SITE DEVELOPMENT

In 1984, Bernhard Reiling Junior joined his parents' company and took over as manager. The existing treatment plants and their technology were adapted to suit the demands for recycling the ever increasing number of recyclables collected, and the process was constantly improved. With business growing, it became necessary to establish subsidiaries. Other companies were founded, such as Reiling MS-Recycling GmbH, and additional treatment sites for used glass were set up in the vicinity of the glass industry, e.g. in Gladbeck, Lünen, and in Denmark, Sweden and Poland.

Another milestone was the inauguration of a state-of-the-art flat glass processing plant in Marienfeld

in 1994 and the introduction of an X-ray fluorescence analysis in 2009, critical to detecting and sorting out impurities such as lead glass and glass ceramics. Today, this treatment plant for waste glass is also used in Osterweddingen and Torgau.

We recognised recycling potential in many other raw materials and have successfully added them to our core business. Our portfolio now also includes wood, PET and photovoltaic recycling. In Hamm-Uentrop, our PET treatment plant went online in the direct vicinity of the fibre industry.

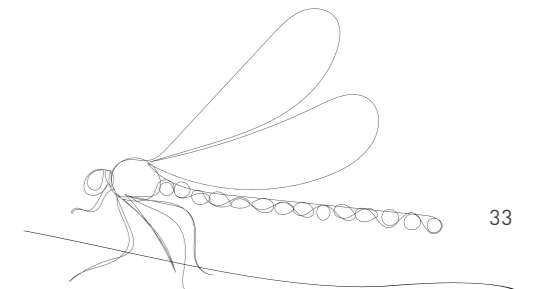
In 2020, another large PET treatment plant was built in Burgbernheim in Middle Franconia, Bavaria. There is always much to do: Most recently, we gave the plant of Reiling Nutzfahrzeuge GmbH in Marienfeld a facelift and put our efforts into the production of foam glass gravel, which went hand in hand with the acquisition of the foam glass manufacturer Schaumglas Husum GmbH and Veriso GmbH in Berlin.

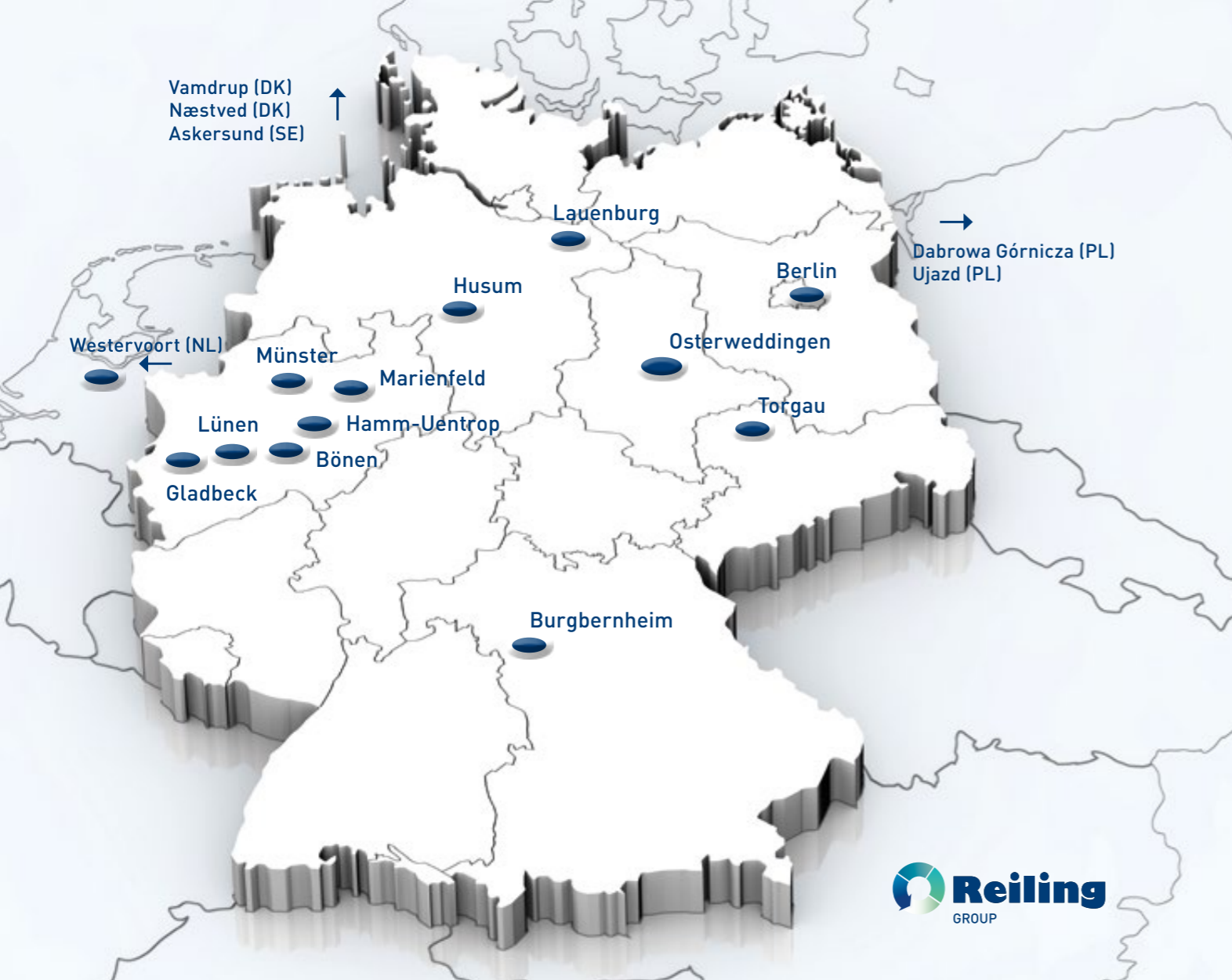
### WHERE WE ARE NOW

Today, the Reiling Group has twelve German and six international sites with over 650 employees, many of whom have been with the company for years - a trait that defines us. What makes our family-run business strong are cohesion and engagement, fast decision-making and continuity in quality.

### WHAT SETS US APART?

It is our versatility paired with the coverage of the entire recycling chain. We are a full-service provider, offering our own fleet of vehicles and our own container services. Yet it is also our drive for innovation. We take up every challenge that comes our way, are solution-oriented and have the courage to move forward - always in a deliberate and sustainable manner.





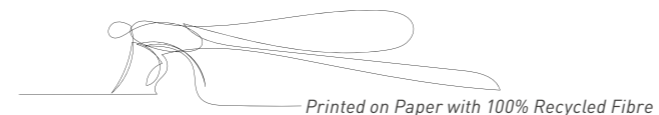
Reiling GmbH & Co.KG headquarters in Marienfeld.

## Germany-based locations

**Headquarters:**  
**Reiling GmbH & Co. KG**  
 Bussemasstraße 49  
 D - 33428 Marienfeld

**Other locations:**  
**Reiling Glas Recycling GmbH & Co. KG**  
 Bussemasstraße 49  
 D - 33428 Marienfeld  
**Reiling Glas Recycling GmbH & Co. KG**  
 Solarstraße 15  
 D - 04860 Torgau  
**Reiling Glas Recycling GmbH & Co. KG**  
 Appendorfer Weg 4  
 D - 39171 Sülzetal  
**Reiling Glas Recycling GmbH & Co. KG**  
 Am Wiesenbusch 34  
 D - 45966 Gladbeck  
**Ruhrglas Recycling GmbH & Co. KG**  
 Frydagstraße 39  
 D - 44536 Lünen

**R-Glas Recycling GmbH & Co. KG**  
 Söllerstraße 33  
 D - 21481 Lauenburg  
**Reiling Kunststoff Recycling GmbH & Co. KG**  
 K'Park Straße 20  
 D - 59071 Hamm- Uentrop  
**Reiling Kunststoff Recycling GmbH & Co. KG**  
 Im Grund 13  
 D - 91593 Burgbernheim  
**Reiling Holz Recycling GmbH & Co. KG**  
 Weetfelder Straße 36  
 D - 59199 Bönen  
**Soon: New competence centre photovoltaics recycling**  
 Hessenbusch 180  
 D - 48157 Münster



**Reiling Nutzfahrzeugservice GmbH**  
 Max-Planck-Straße 29  
 D - 33428 Marienfeld  
**Veriso GmbH**  
 Knesebeckstr. 98a  
 D - 10623 Berlin  
**Schaumglas Husum GmbH**  
 Nienburger Str. 6  
 D - 31632 Husum

## International locations

**Reiling Glasrecycling Danmark ApS**  
 Maglemølle 60  
 DK - 4700 Næstved

**Reiling Glasrecycling Danmark ApS**  
 Kruntappen 11  
 DK - 6580 Vamdrup  
**Swede Glass United AB**  
 Smidesvägen 2  
 SE - 69621 Askersund  
**DSS Recykling Sp. z o.o.**  
 ul. Magazynowa 1  
 PL - 42-530 Dabrowa Górnicza  
**DSS Recykling Sp. z o.o.**  
 Osiedle Niewiadów 64  
 PL - 97-225 Ujazd  
**Reiling Glas Recycling Nederland B.V.**  
 Hamersestraat 8  
 6931EX Westervoort



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