reine Produktivität

Herding FILTERTECHNIK

ENVIRONMENTAL DECLARATION

EMAS
GEPRÜFTES UMWELTMANAGEMENT
DE-166-00086

2025

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FOREWORD

TO THE 2025 EDITION

The year 2024 in the machinery and plant engineering sector was marked by economic challenges that also affected our company. Nevertheless, we were able to consistently pursue our sustainability goals and implement important steps.

Especially in economically demanding times, it becomes clear how significant sustainable action and close collaboration within the organisation are. Thanks to the commitment of all employees, we successfully continued to pursue our sustainability objectives in 2024 and achieved key milestones.

This Environmental Statement 2025 documents our progress and our clear commitment to responsible action – even in a challenging market environment. We thank everyone involved for their dedication to a sustainable future.

FROM AN „OBERPFÄLZER“ START-UP TO AN

INTERNATIONAL CORPORATE GROUP

Herding Filtertechnik looks back on a 48-year company history. From the very beginning, the focus has been on fundamentally improving filter system technology and creating sustainable solutions for removing dust from the air. The development of pure surface filtration was a milestone that continues to set industry standards to this day

The company is currently managed by the second generation and produces up to 80,000 innovative filter elements annually at its Amberg site. These are used worldwide in a wide range of industries – from laser cutting technology to the pharmaceutical sector, battery production and the food industry. The products are characterised by an almost unlimited service life and high filtration performance, making sustainability firmly embedded in the company's DNA.

Herding Filtertechnik relies on continuous development and pursues its own path both technologically and organisationally. The corporate culture is shaped by innovation, a strong sense of community and a conscious commitment to sustainable business practices. At its headquarters in Amberg, the company employs over 425 people and operates a production area of around 12,000 m².

The company's success is built on two key pillars: innovative filter technology and a strong sense of community. The combination of technical excellence and sustainable action forms the foundation for the future viability of Herding Filtertechnik.

PURE PRODUCTIVITY...

...not only guarantees clean air but also entails economic and ecological resource optimization. Our philosophy revolves around enhancing the productivity of our customers sustainably through our products and services. This is achieved through complete filtration systems from a single source. This includes all services, starting from requirement analysis, consulting, customized design and planning, production, installation, commissioning, all the way through to ongoing maintenance.

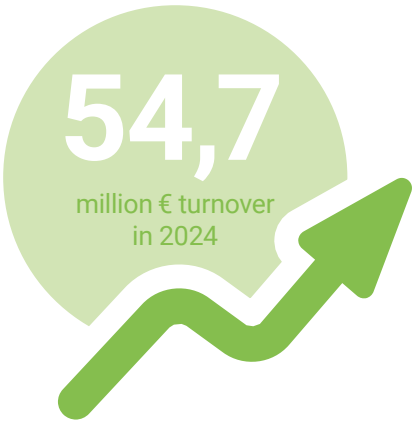
WE ...

The economic success of our company would be inconceivable without our valued employees. Innovative problem-solving for our customers emerges through the collaboration of people. We achieve this by institutionalizing personal initiative, commitment and assistance instead of discussing responsibilities. This is how we define WE - a mindset that commences from our in-house training and extends to the management.

Ultimately, we distribute the achieved success among US, ensuring that every employee is directly involved in the company's prosperity.

FOUNDED IN
1977

employees at the
Amberg location
in 2024



Activity NACE code 28.25

Manufacture of non-domestic aeronautical products

DUST IN –

AIR OUT

PERSPECTIVES ON

SUSTAINABILITY

STEADY IMPROVEMENT

The pursuit of continuous and never-ending improvement is the core philosophy of KAIZEN. When applied and executed throughout the entire value creation process, this approach inevitably contributes to sustainability by reducing waste and resource consumption.

In times of strong growth, it is all the more important to identify waste and decouple the use of resources from the growth curve. This has been achieved once again, even with investments in plants and buildings.

INNOVATIONS TO REDUCE CO_2

The new generation of filter media, Herding PRO and Herding OMIKRON, showcases the transformative potential that lies in newly conceived technologies, particularly in relation to CO_2 emissions. These filter types are crafted from a homogeneous and thus pure raw material, setting a new standard in the circular economy. In addition, their largely automated manufacturing process minimizes material and resource use. Finally, the minimized energy consumption during operation can be mentioned.

In 2024, another IR sintering furnace was commissioned for electric operation. In addition, the existing photovoltaic system was expanded to a capacity of 711 kWp. These measures represent important steps toward greater sustainability and efficiency.

By combining these factors, the CO_2 footprint across the entire product life cycle was significantly reduced. The conversion of the sintering furnaces alone resulted in a reduction of total gas consumption by more than 50%. CO_2e emissions were reduced by around 30% between 2021 and the end of 2024 and are expected to be further reduced by an additional 30% in 2025 through in-house power generation and the purchase of renewable energy.

LIFECYCLE MANAGEMENT

The Herding® sinter-plate filter stands out as it undergoes virtually no wear and tear. It was a logical step early in the company's history to explore the reprocessing of used filters. Over the past 30 years, Herding has been retrieving filter elements from the field, cleaning, re-coating, and reintroducing them. This way, the filter elements have been in use for 20, 25 or even 30 years. Rather than pursuing a profit-maximizing aftersales strategy, we believe in the success of meaningful sustainability, even in the spare parts business.

To enhance our effectiveness in the field of regeneration and circular economy, we are increasingly focusing on the development of single-variety filters. From 2024, Herding will be the first manufacturer in the world to offer all polymer-based filter elements completely PFAS-free.

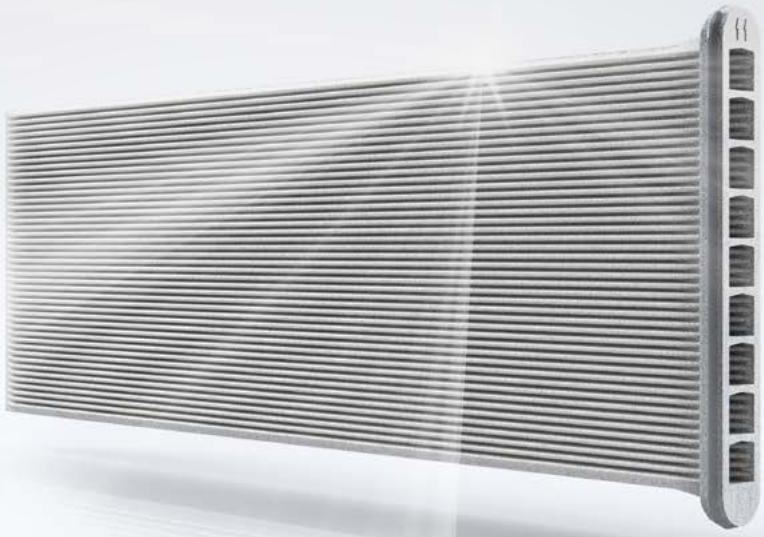
By setting new standards in environmental protection and sustainability, Herding is once again demonstrating its innovative strength and leading role in the industry.

COMPARABILITY AND VERIFICATION

Compliance with normative requirements in machinery and plant engineering is complex and dynamic. The company places great importance on transparency and honesty to provide partners with the highest possible planning reliability. Open dialogue with partners is key to quickly and directly resolving questions.

For over 20 years, regular audits have been carried out by external certification bodies. When it comes to sustainability, the company remains true to its motto of 'pure productivity.'

The Product Carbon Footprint (PCF) for new and regenerated filter elements is calculated in a self-declaration according to the GHG Protocol and ISO 14067. Independent validation is still pending. Depending on the filter type, the PCF of a regenerated filter element is reduced by 50–80% compared to a new filter.



HERDING

FILTER TECHNOLOGY

Herding® filter technology, based on pure surface filtration, provides long-term protection for man and machine from harmful production emissions, enables clean and contamination-free recovery. This directly increases your productivity.

Lowest clean gas values, absolutely constant operating conditions, highest availability and energy efficiency are key features of the innovative technology. **In 2024, the PFAS-free production of all polymer-based Herding® filter media will be fully implemented.** PFAS is the abbreviation for Per- and Polyfluorinated Alkyl Substances. This term refers to a large group of chemicals. Their common characteristic is that they have a basic structure of carbon chains surrounded by fluorine atoms (so-called C-F chains)*.

In addition, our filters have an extremely long service life and, depending on the process, can achieve a service life of more than 15 years before first regeneration. Their use therefore makes a valuable contribution to environmental protection and sustainability.

- DURABLE LONG SERVICE LIFE
- CONSTANT OPERATING CONDITIONS
- COMPAKT DESIGN
- ENERGY EFFICIENCY DUE TO LOW CLEANING PRESSURE
- PRODUCT RECOVERY WITHOUT CONTAMINATION
- PURE AIR AND CLEAN GAS DUE TO LOWEST CLEAN GAS VALUES
- RESISTANT TO CHEMICALS

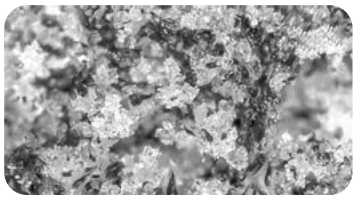
*Umwelt Bundesamt.

PRODUCTS

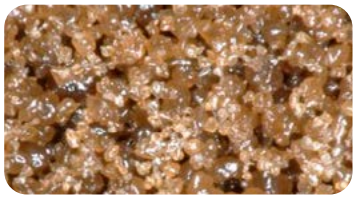
FILTER MATRIX

Compact rigid body

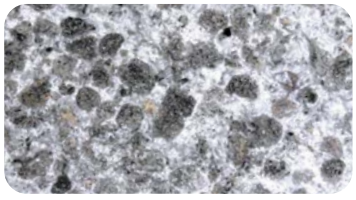
Herding DELTA, PRO, HSL
Sintered PE (polyethylene)

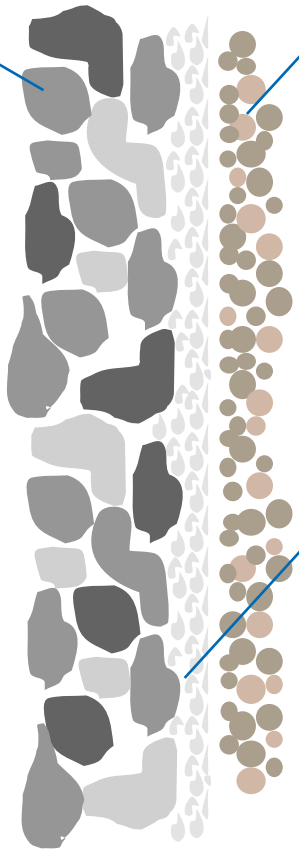


Herding BETA
Sintered PPS
(polyphenylene sulfide)



Herding ALPHA
Clay with ceramic binder





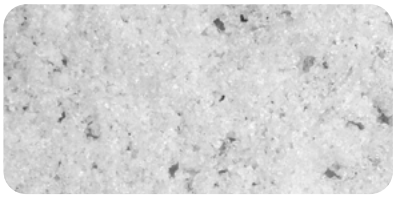
EFFECTIVE PRODUCT SEPARATION

The particle spectrum to be filtered is separated on the surface.

No affinity to store fine particles in the filter body.

SURFACE COATING

Microporous layer, PFAS-free and homogeneously embedded in the filter surface.

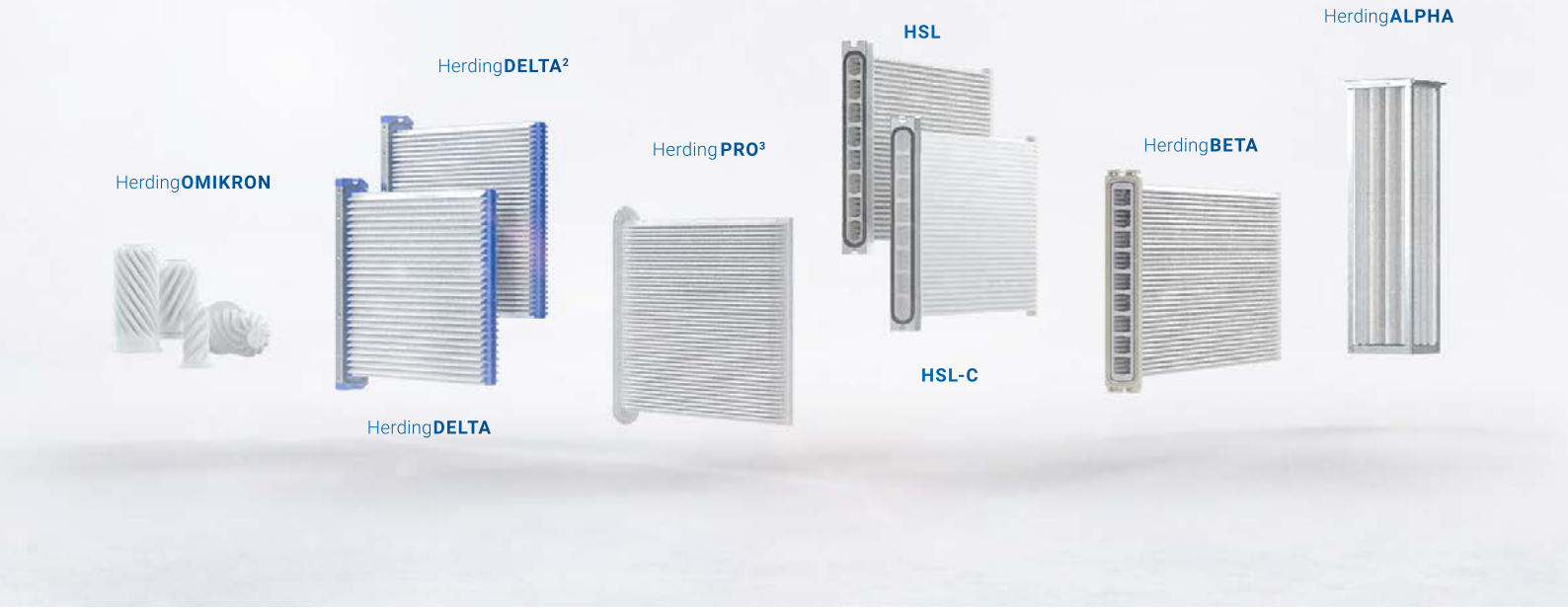


Herding® Filtertechnik offers its customers complete systems - from analysing advice, design and planning through to production, installation, commissioning and subsequent maintenance.

Herding filter media have proven themselves in numerous industrial sectors through effective and reliable particle separation. Even with the finest particle sizes and even toxic dusts, energy-efficient recirculated air operation is usually possible.

Customers include the food industry, pharmaceutical and chemical production as well as high-tech sectors such as e-mobility and additive manufacturing (3D metal printing).

PRODUCTS



FILTER	Herding **OMIKRON**	Herding **DELTA DELTA²**	Herding **PRO³**	**HSL**	**HSL-C**	Herding **BETA**	Herding **ALPHA**
Operating temperature up to max. [°C]	70	70	70	70	100	160	450
Residual dust content [mg/m³]	< 0,1	< 0,1	< 0,1	< 0,1	< 0,1	< 0,5	< 2,0
Filter surface area per filter element [m²]	0,05 - 0,37	1,10 - 7,10	3,15 - 8,5	0,54 - 7,64	0,89 - 7,64	2,20 - 4,75	3,00
PFAS-free	✓	✓	✓	✓	✓	✓	✓
Adhesive dusts (with precoating)	✓	✓	✓	✓	✓	✓	✓
Abrasive dusts	✓	✓	✓	✓	✓	✓	✓
Regeneration	✗	✓	✓	✓	✓	✓	✗
DustExZoneBarrier acc. to VDI 2263	✗	✓	✓	✓	✓	✓	✗
Clean air recirculation (depending on the dust class)	✓	✓	✓	✓	✓	✓	✓
Antistatic / dissipative version	✓	✓	✓	✓	✓	✓	✗
Non-chargeable version	✓	✓	✓	✓	✓	✓	✗
Foods EU approved (EG) 135/2004 (EU) 10/2011	✓	✗	✓	✓	✗	✓	✗

REDUCED CO_2 STEEL

SUSTAINABILITY

„MADE IN GERMANY“

From the single filter element to the completely installed filter system, the production chain starts with the filter media production and ends with the final assembly.

The vertical range of manufacture in Germany ensures an extremely high quality standard and the greatest possible flexibility for our customers worldwide. Based on a well planned modular principle, a variety of filter system types is available, which can be individually tailored to the required application. A wide range of housing and construction materials rounds off the range of product variations. All systems can also be ordered with CO_2-reduced steel.

Herding **MAXX**

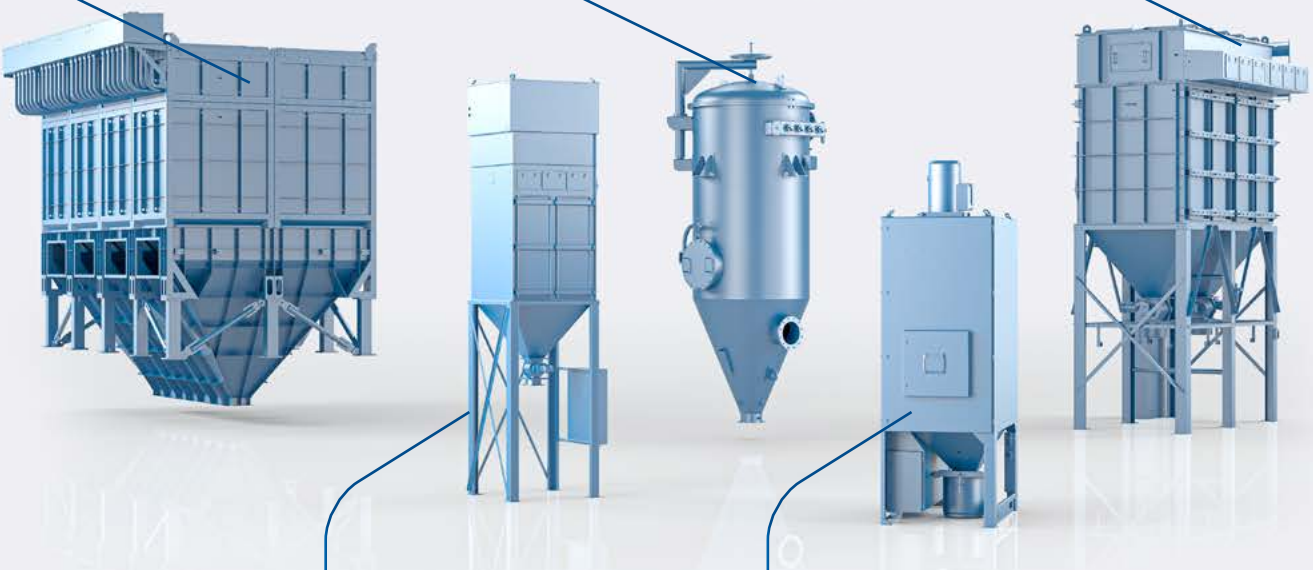
For very high air flows

Herding **RESIST**

For applications with high requirements on pressure resistance and easy cleanability

Herding **PROCESS**

The series for highest expectations



Herding **FLEX**

The flexible type series for all industries

Herding **COMP**

The compact filter system for limited space

NEW PRODUCTS

SYSTEMATICALLY REFINED

The new Herding® FLEXPRO Filter System combines proven Sinter-Plate Filter technology with an intelligent system architecture and modular design. It offers maximum adaptability, sustainably reduces energy and operating costs, and at the same time ensures the highest level of operational reliability – even in sensitive production environments.

DIGITALIZATION

- Digitally assisted commissioning
- OPC UA-Interface for seamless integration into IoT- and control systems
- Digital Twin in the Herding® Cloud

SYSTEM ARCHITECTURE & ENERGY EFFICIENCY

- Integrated volume flow control
- Up to 25% reduction in CO_2-Footprint
- Lower operating and energy costs without compromising performance

STEUERUNG HC4.0

- OPC UA Interface
- Connector Herding® Cloud
- Operational Data Visualization

FLEXPRO

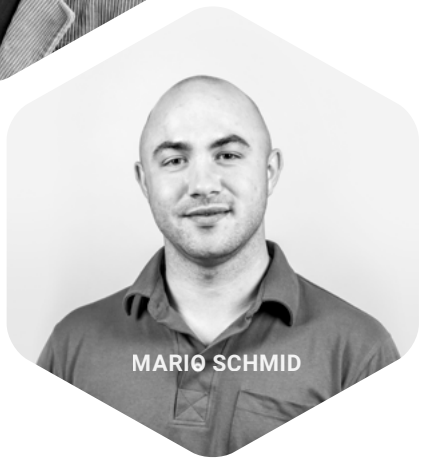
ORGANISATIONAL STRUCTURE ENVIRONMENT


DR. URS HERDING


WOLFGANG RAABE


FABIAN SCHÜNKE


LUKAS BALK


MARIO SCHMID


SEBASTIAN RUPPRECHT


MANFRED DAUCHER

Management:
Dr. Urs Herding, Wolfgang Raabe, Fabian Schünke

Environmental & Quality Manager:
Lukas Balk

Waste Manager:
Manfred Daucher

Hazardous Substance Management:
Sebastian Rupprecht, Vertretung Mario Schmid

DUST IN
AIR OUT

As a manufacturer of filter units and filter systems, we make an active contribution to the pure productivity of our customers. We minimize the environmental impact during the production process and throughout the product life cycle. Additionally, we are working on reducing the use of non-regenerative energy sources.

Our products are characterised by the longevity of the filter media and therefore the filter systems. By offering the option of filter media regeneration, we provide a genuine alternative to purchasing new products. We continuously optimize our products in terms of electricity and compressed air consumption.

As a responsible member of the business community, it goes without saying that we always comply with the law. To this end, we systematically and regularly identify the laws, regulations, directives and standards with which we must comply. We actively ensure that these obligations are met and use a range of tools to monitor their effective implementation. These include an active internal feedback culture, regular internal audits and external monitoring by experts and our licensing authorities.

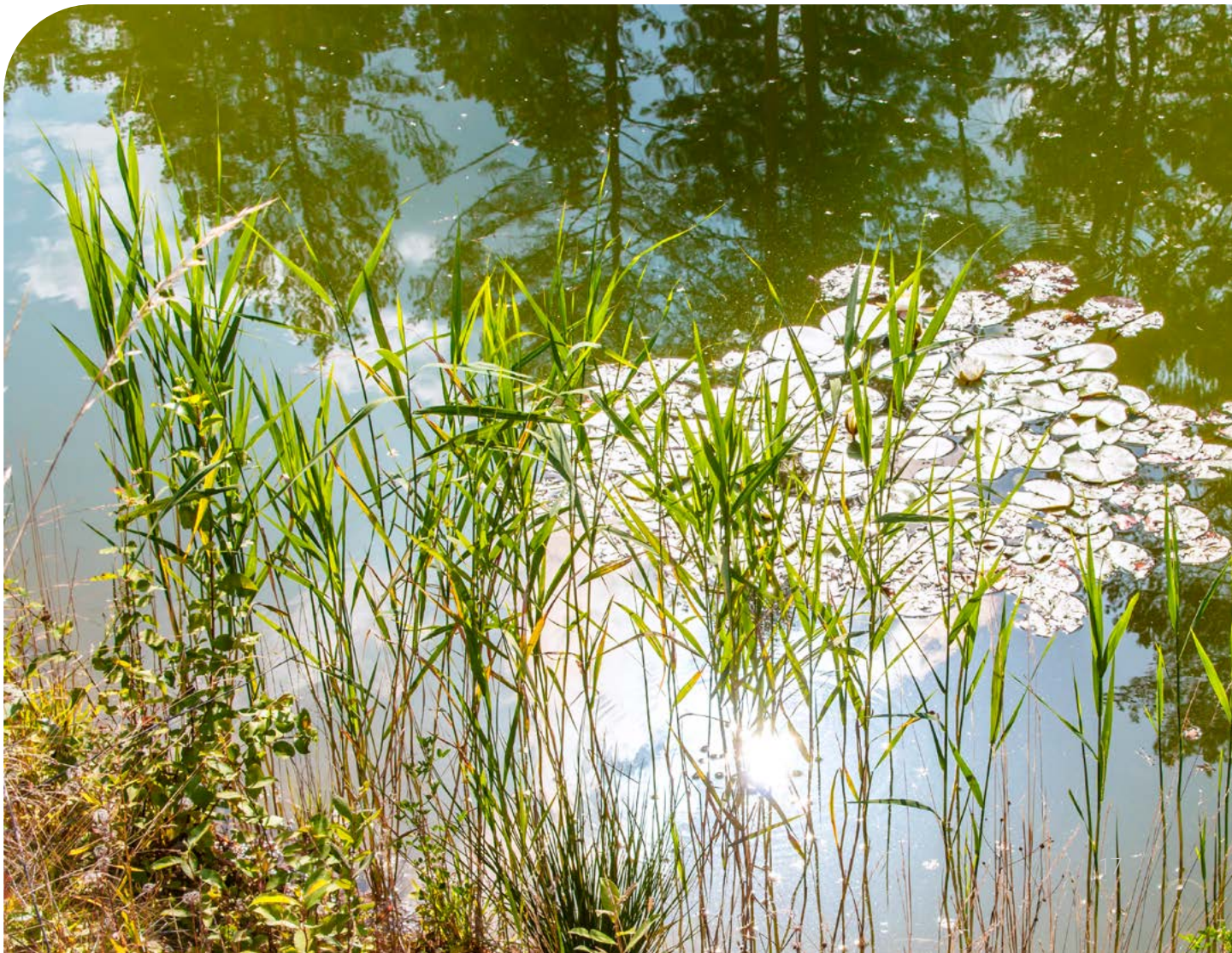
We procure products and services that comply with applicable environmental legislation and contribute to improving the energy performance of the company and its products. All equipment parts procured for Herding GmbH Filtertechnik filter system orders comply with the applicable EU directives and regulations and the Product Safety Act. This also applies to parts used in our own production. Energy efficiency is taken into account when designing and optimising machines/ equipment used in our own production. Alternative scenarios are compared in terms of energy efficiency if the energy consumption of the new machines/ equipment represents a significant proportion of the total energy consumption.

LEGAL FRAMEWORK

The company systematically and regularly determines which laws, regulations, directives, and standards must be complied with. Implementation is monitored through internal feedback, regular audits, external inspections, and by the relevant licensing authorities. When procuring products and services, compliance with applicable environmental protection regulations and measures to improve energy performance is ensured.

The areas of law that apply to us include in particular:

- The Federal Immission Control Act (BImSchG) and the associated ordinances (BImSchV),
- The Federal Water Act (WHG), in particular the Ordinance on Installations for the Handling of Substances Hazardous to Water (AwSV),
- The Closed Substance Cycle Waste Management Act (KrWG) and the associated ordinances (e.g. GewAbfV)
- Occupational health and safety, regulated above all in the Workplace Ordinance, the Industrial Safety Ordinance, etc.
- Energy law, and The accounting rules for preparing a carbon footprint.
- Reach and RoHS Directive



ENVIRONMENTAL IMPACT

Classification low medium high

Environmental aspect	Meaning	Possibilities of influence
Emissions	• Air pollution control	• Regular visual inspections • Compliance with legal inspection requirements
Odour	• Odour emissions into the environment • Odour emissions at the workplace	• Additional ventilation and extraction • Occupational safety measures • Training and instruction
Dust	• Metalworking • Raw material handling • Product processing	• Dust collection at the workplace • Occupational safety measures • Training and instruction
Waste	• Consumption of raw materials • Logistics • Costs	• Low-waste purchasing • Dialogue with suppliers • Development of PFAS-free products - therefore no hazardous waste Teflon sludge • Positioning and signposting of collection points for waste fractions • Training and instruction • Proper disposal of residual quantities
Raw materials	• Land use and environmental pollution in the countries of origin • Consumption of non-renewable raw materials	• Request environmental measures from the supplier • Purchasing criteria are price and delivery time; supplier certifications are increasingly important.
Auxiliary materials	• Environmental impact of production and disposal • Potential hazards in the workplace during use	• Testing the substitution of hazardous operating materials • Occupational safety measures • Training and instruction
Electricity	• Main form of energy for office and production processes	• Purchase of renewable energies • Expansion of PV systems for own use
Heat	• Natural gas is the main form of energy used to heat buildings	• Waste heat utilisation for heat support • Use of renewable forms of energy to support heat generation • Alternative heat generation
Fuel	• Vehicle fleet	• Leasing of consumption-optimised combustion vehicles • Switch to electric vehicles
Water	• Water consumption for household and sanitary needs • Production water for suspension, cooling and cleaning	• Training and instruction • Solids separator • Sink tank • Recirculation • Cascade utilisation • Regular visual inspection • Compliance with legal test specifications

INPUT VARIABLES FOR THE

ENVIRONMENTAL INDICATORS

In order to form key figures, both the consumption data and the basic data with which this consumption data is compared are required. The following basic data is used for reporting purposes in this environmental statement:

Year	**Employees** [Number]	**Filter elements** Pieces [Pcs]	**Turnover** Thousand Euro [T€]
2018	304	66.649	41.683
2019	338	76.791	44.516
2020	348	54.970	42.725
2021	356	70.699	50.542
2022	374	75.607	57.123
2023	400	68.152	66.574
2024	425	49.710	54.764

APPROACH AND BALANCE SHEET LIMITS

CLIMATE BALANCE AND EMISSION TRENDS

The climate balance of our company is prepared in accordance with the Greenhouse Gas Protocol Corporate Standard. Greenhouse gas emissions are calculated using the bottom-up approach, where the respective emission factors are multiplied by consumption data. Emissions are determined at the level of individual sources and installations and then aggregated at the company level. For measurements, gas and electricity meters as well as purchasing and maintenance records are evaluated. Results are presented separately by energy source, Scope 1 and Scope 2, and as an overall summary.

The selection of emission factors is based on the analysis of several publicly available sources, with national and regional values preferred. The accounting boundaries are defined by the classification into Scope 1, which includes direct emissions from company-owned or controlled energy consumers, and Scope 2, which covers indirect emissions from purchased and consumed energy.

The recorded greenhouse gas emissions (CO_2, SF_6, CH_4, N_2O, HFCs/CFCs and PFCs) are converted into CO_2 equivalents at the energy source level. Emissions of SO_2, NO_x and particulate matter are reported separately for natural gas, electricity and fuels.

KEY DEVELOPMENTS

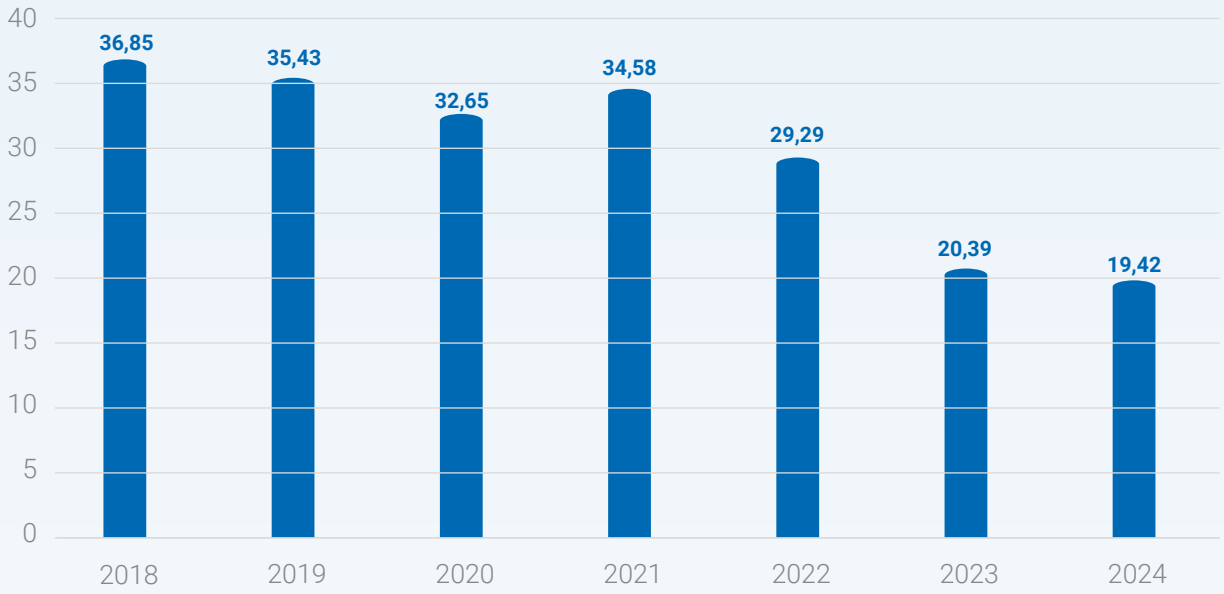
The CO_2 equivalents in Scope 1 were reduced by 48% in 2024 compared to 2021, primarily achieved by switching sintering furnaces from gas to electric heating.

The number of electric vehicles in the fleet increased by 50% from 2023 to 2024, and after lease expiration, vehicles were preferentially replaced with electric models or more efficient engines. The Scope 2 value was reduced by 55% in 2024 compared to 2023, thanks to increased use of self-generated photovoltaic power, which offset the higher electricity demand caused by the furnace conversion.

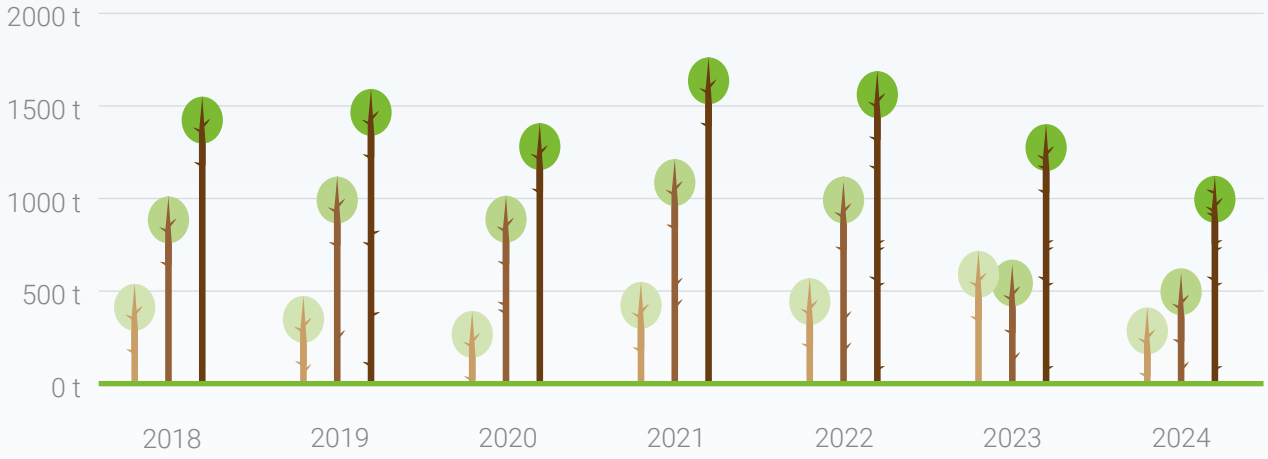
1 Cf. The Greenhouse Gas Protocol, 2004, A Corporate Accounting and Reporting Standard, Revised Edition, World Business Council for Sustainable Development, World Resources Institute page 46
2 Cf. The Greenhouse Gas Protocol, 2004, page 59
3 Cf. The Greenhouse Gas Protocol, 2004, page 25

ENVIRONMENTAL INDICATORS FOR CLIMATE-RELEVANT GASES

kg CO_2 per T€-Turnover



CO_2 value table

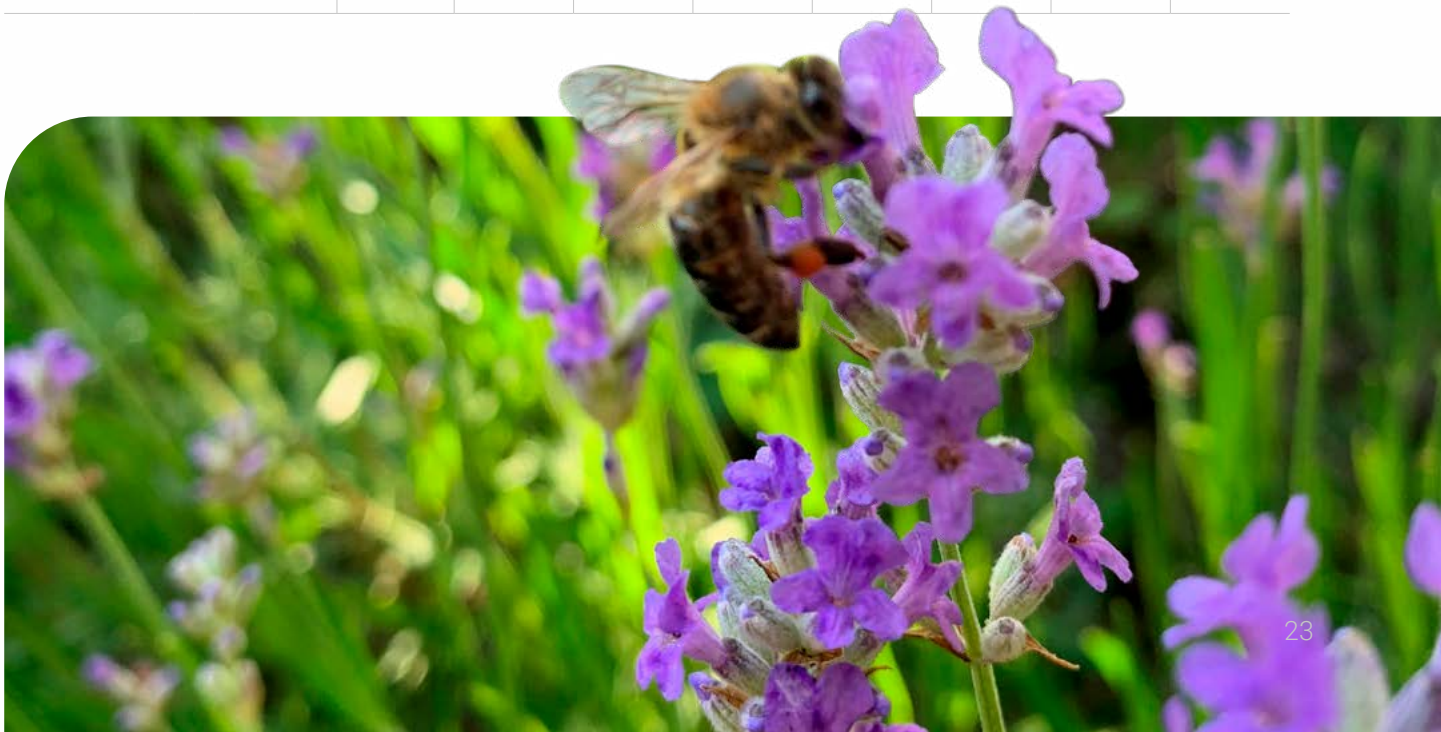


	2018	2019	2020	2021	2022	2023	2024
Scope 1 (t)	1.008,33	1.106,02	1.012,86	1.192,78	1.033,10	678,15	624,51
Scope 2 (t)	513,19	447,99	357,62	507,15	552,42	733,17	457,82
Herding total (t)	1.521,52	1.554,01	1.370,48	1.699,93	1.585,52	1.411,32	1.082,33

ENVIRONMENTAL INDICATORS FOR EMISSIONS

Emissions	Factor	Unit	2018	2019	2020	2021	2022	2023	2024
Gas consumption Total		MWh	3.760	4.158	3.772	4.542	3.764	2.056	1.773
SO_2	1 g / MWh	kg	4	4	4	5	4	2	1,77
NO_x	74 g / MWh	kg	278	308	279	336	279	152	131
Particulate matter (PM)	0 kg / MWh	0	0	0	0	0	0	0	0
Turnover		T€	41.683	44.517	42.726	50.543	57.124	66.574	54.764
SO_2 relative	1 g / MWh	g / T€ Turnover	0,090	0,093	0,088	0,090	0,066	0,031	0,03
NO_x relative	74 g / MWh	g / T€ Turnover	6,675	6,912	6,533	6,650	4,876	2,285	2,390
PM relative	0 kg / MWh	0	0	0	0	0	0	0	0

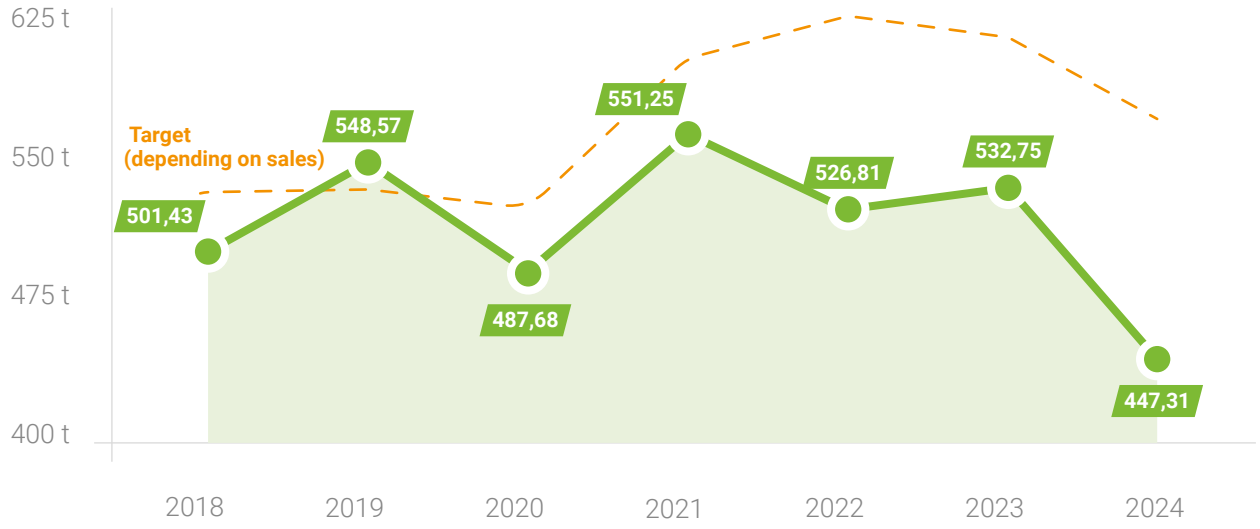
Particulate matter (PM) from electricity and diesel /petrol Total		kg	18,06	18,22	13,62	19,73	19,92	25,23	15,72
	Scope 1	kg	10,22	11,05	7,86	8,47	7,98	8,06	4,91
	Scope 2	kg	7,84	7,17	5,76	11,26	11,94	17,17	10,81
	relative	g / T€ Turnover	0,43	0,41	0,32	0,39	0,35	0,38	0,29



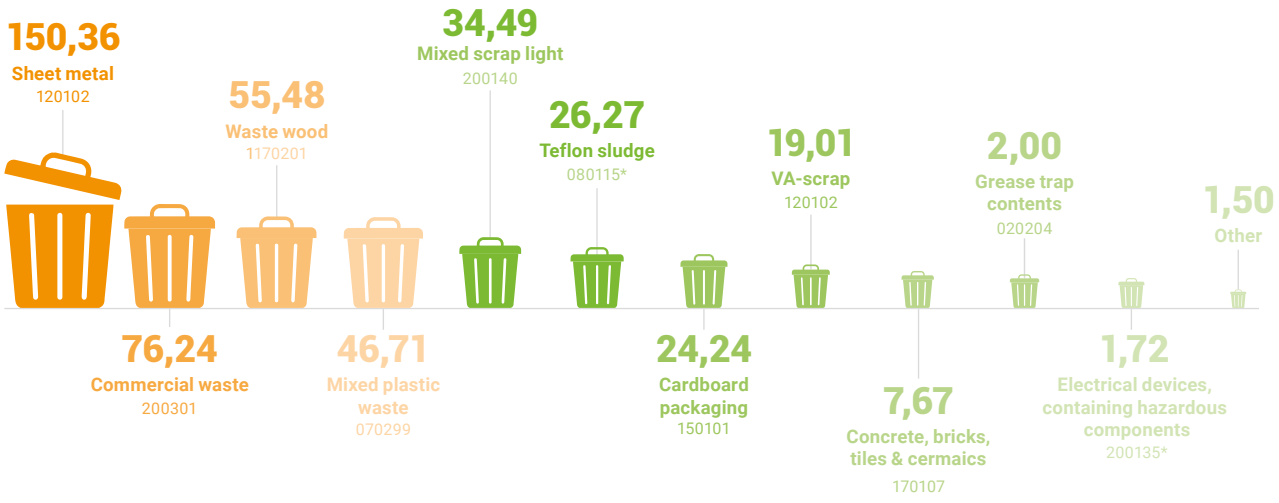
ENVIRONMENTAL INDICATORS FOR WASTE

In the last quarter of 2024, the coating process was successfully converted to PFAS-free methods. This measure reduced the amount of Teflon sludge by approximately 33% compared to 2023. Disposal of regeneration and coating sludge now takes place under the new waste code AVV 19 08 14 ('Waste from other treatment of industrial wastewater, containing DKI-III, non-hazardous').

Total annual amount of waste



Waste distribution 2023 in tonnes



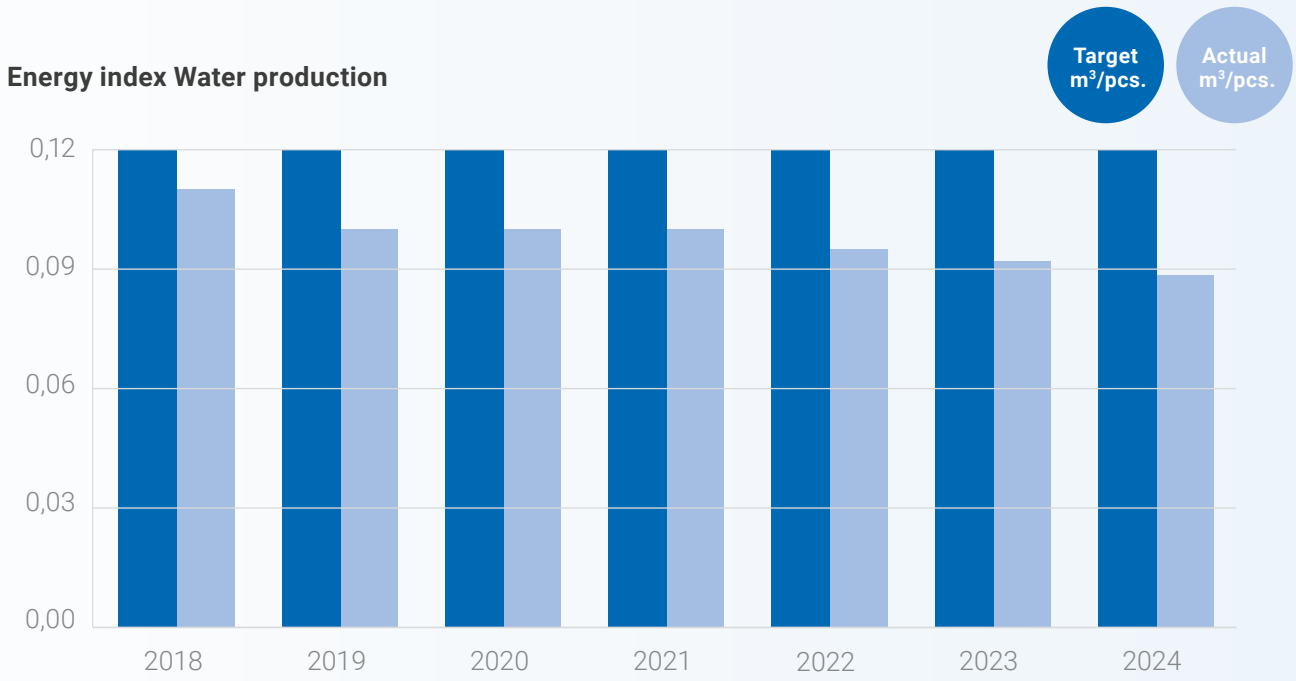
*Hazardous waste according to the European Waste Catalogue (EWC)

ENVIRONMENTAL INDICATORS FOR WATER

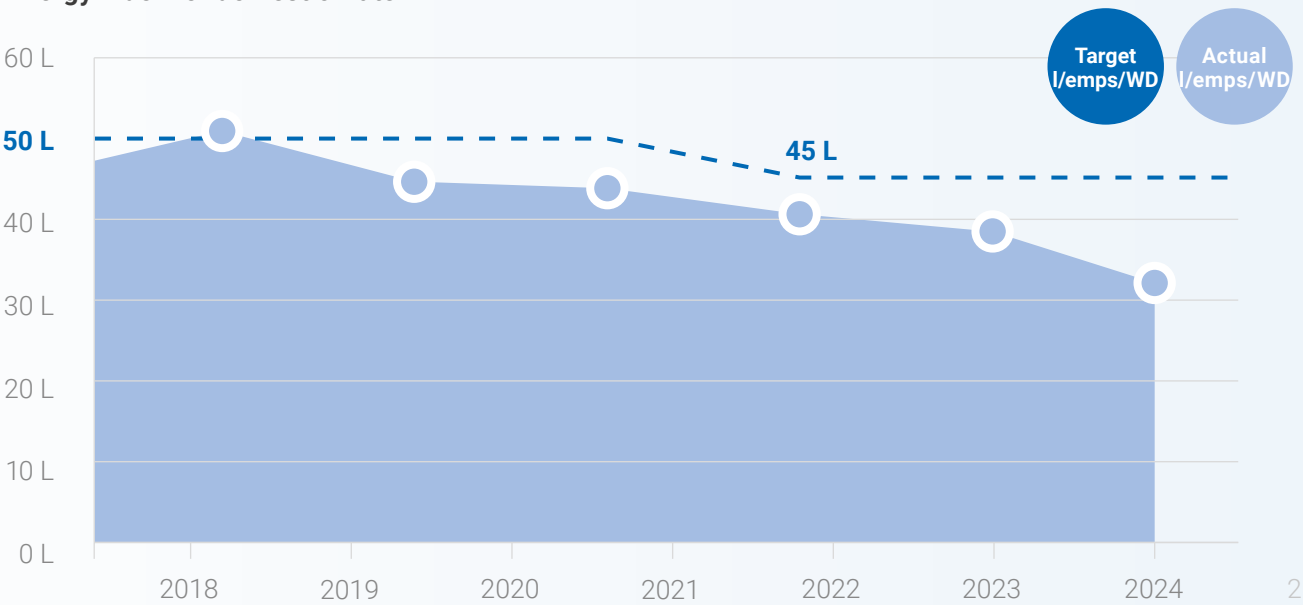
Water consumption (divided into process water and service water) is continuously monitored and systematically reduced. In recent years, significant savings have been achieved through technical and organizational measures, such as optimizing production processes and using efficient equipment. As a result, water consumption in manufacturing as well as per employee workday has been significantly reduced.

	Unit	2018	2019	2020	2021	2022	2023	2024
Total water consumption	m^3	8.889	9.254	7.802	8.953	10.381	9.839	7.745
Production water consumption	m^3	5.498	5.956	4.451	5.765	7.184	6.247	4.255
Consumption of process water	m^3	3.391	3.298	3.351	3.188	3.197	3.592	3.490
Number of employee work days	days	66.880	74.360	76.560	78.320	82.280	88.000	91.254

Energy index Water production



Energy index for domestic water



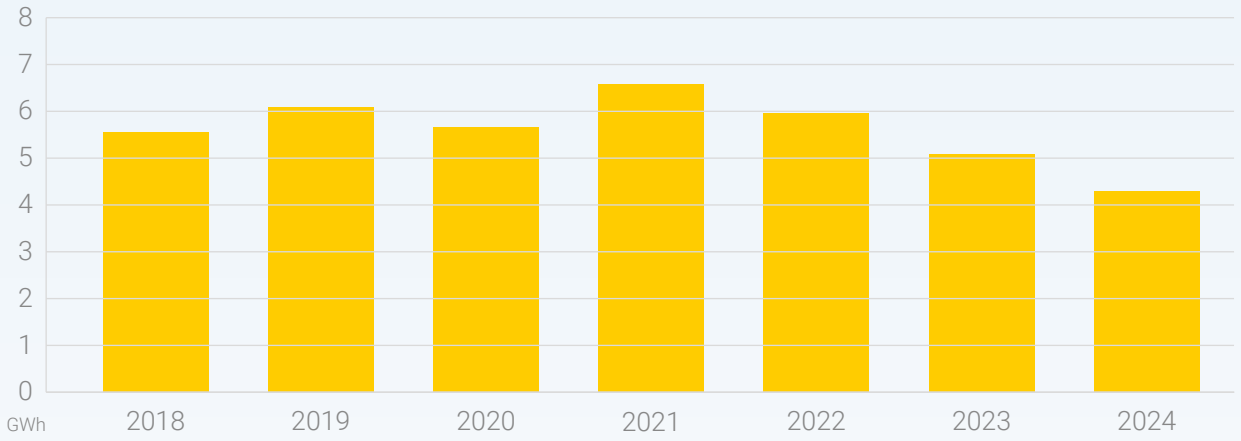
ENVIRONMENTAL INDICATORS FOR TOTAL ENERGY

In 2024, our company was able to reduce total energy consumption by 34% compared to the reference year 2021. Particularly noteworthy is the reduction in gas usage by 61%. These significant savings were largely achieved by converting production from gas to electric operation, which also led to a substantial decrease in waste heat.

To comply with the legal reporting requirement for waste heat potential for total energy consumption exceeding 2,500,000 kWh, comprehensive measurements and analyses were carried out. Despite a total energy consumption of 4,351 MWh, the waste heat potential in 2024 was only 162 MWh, well below the reporting threshold of 800 MWh.

Another important step was the expansion of the photovoltaic system. From the second quarter of 2024, it covered around 17% of total electricity demand, making a significant contribution to sustainable energy supply.

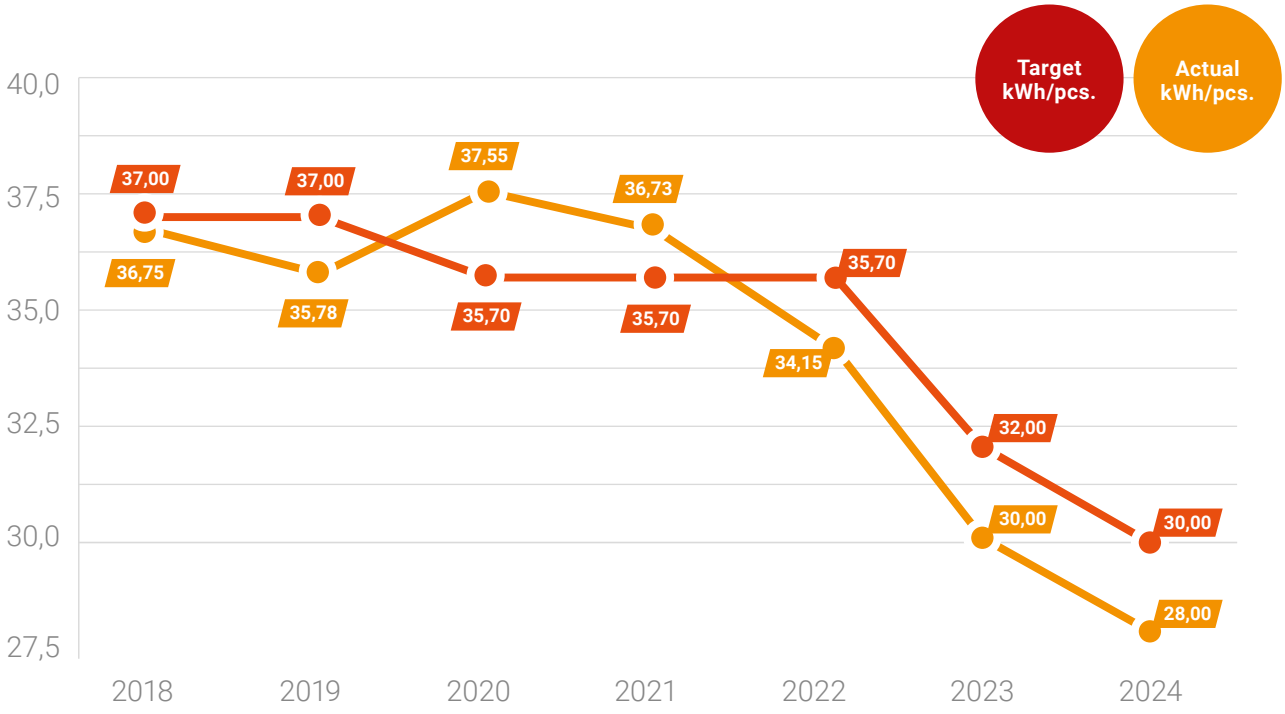
Total energy consumption



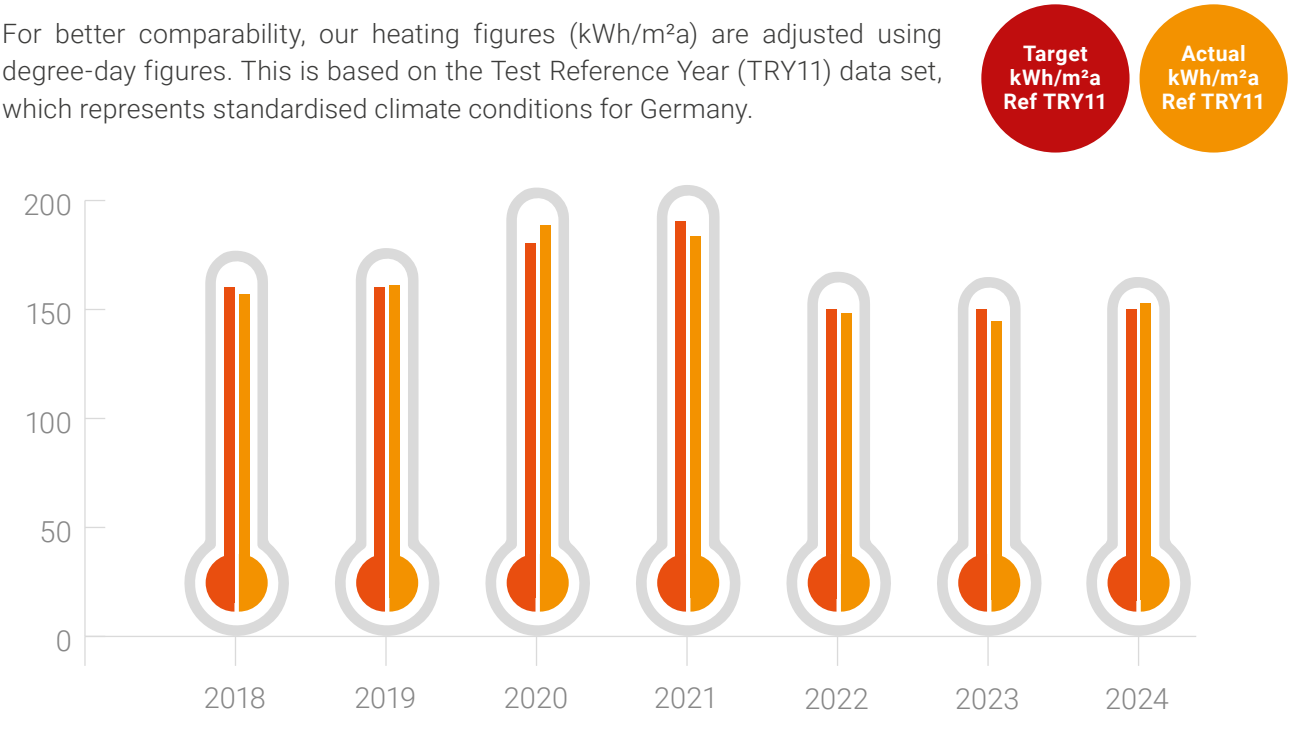
	Einheit	2018	2019	2020	2021	2022	2023	2024
Total energy consumption	MWh	5.561	6.094	5.660	6.575	5.951	5.081	4.351
Total power consumption	MWh	1.801	1.936	1.888	2.033	2.187	3.025	2.578
Proportion renewable	%	56	62	66	59	64	57	76.8
Total gas consumption	MWh	3.760	4.158	3.772	4.542	3.764	2.056	1.773
Gas as process heat	MWh	2.370	2.657	2.013	2.529	2.337	724	368
Proportion	%	63	64	53	56	62	35	21
Gas for heating	MWh	1389	1501	1759	2013	1427	1.332	1.405
Proportion	%	37	36	47	44	38	65	79

ENVIRONMENTAL INDICATORS FOR HEAT

Natural gas consumption is split between production and heating. Since 2022, the gas furnaces of two sintering lines have been converted to infrared. The decoupling of the shift due to the corona measures taken is visible in the production figure. Here, relative gas consumption increases in the short term as the production facilities have longer idle times.

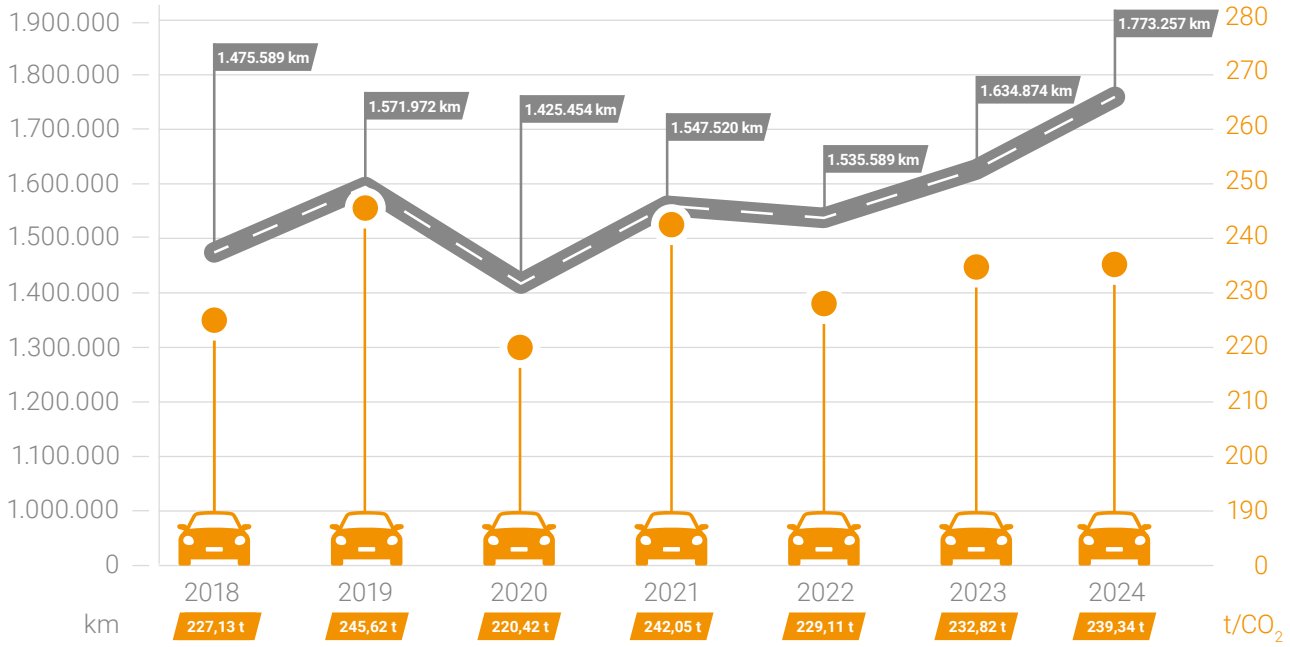


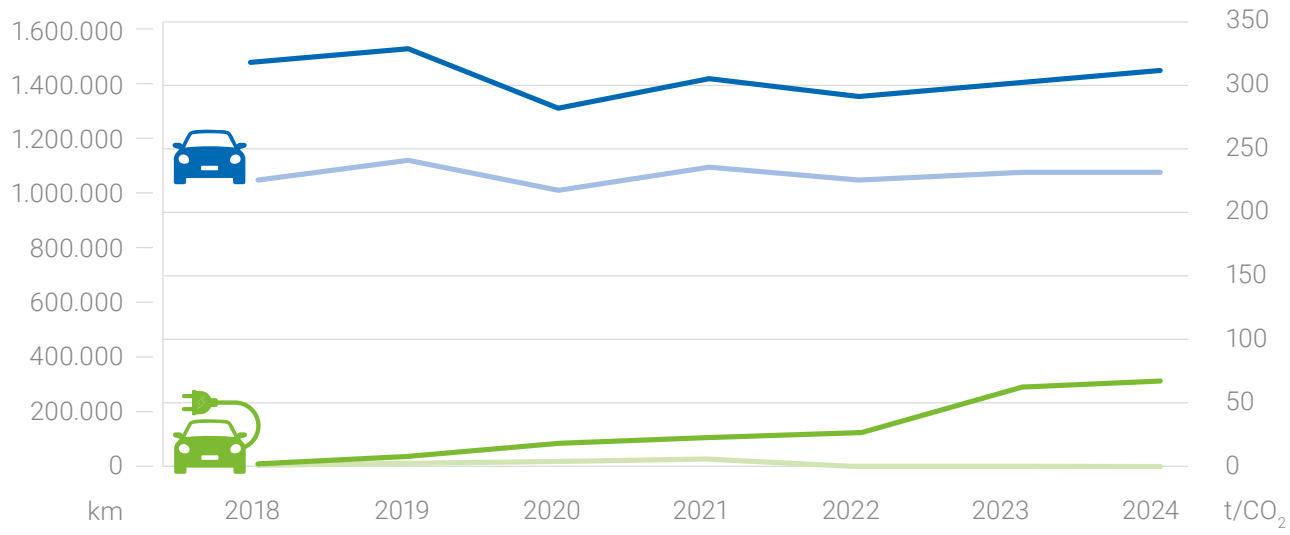
For better comparability, our heating figures (kWh/m²a) are adjusted using degree-day figures. This is based on the Test Reference Year (TRY11) data set, which represents standardised climate conditions for Germany.



ENVIRONMENTAL INDICATORS FOR FUEL

Our car fleet is constantly being replaced with fuel-optimised combustion engines or electric vehicles. This strong growth is partly due to our service activities. Unfortunately, there are still no viable service vehicles with real alternatives to diesel combustion engines. Nevertheless, we have succeeded in decoupling the increase in CO_2 emissions from the increase in total kilometres driven. 18 charging points for electric vehicles are available free of charge to all employees. E-bikes can also be charged for free in a covered car park. This additional positive effect is not taken into account in the presentation and our analysis.





km Total combustion engine

CO_2 emissions from combustion engines (t)

km Total electric

CO_2 emissions from electric (t)

MEASURING POINTS

GAS COMPRESSED AIR ENERGY WATER

Building	Medium	Description
Hall 1	⚡	Construction counters, welding fume extraction
	🔥	Heating
	💧	Building meters
Hall 2	⚡	Building meter, cooling system V02
	🔥	Gas stove 240_01, DELTA foot stove, heat demand V02 from H02 Building meter hall 2-6 + heating V02, Heating hall 2-6
	💧	Building meter hall 2-5 + hall 2-3
Hall 3	⚡	Building meter, air compressor, DELTA furnaces 240_02 and 240_04
	🔥	Waste heat recovery compressor
	💧	Delta furnaces 240_02 and 240_04
	⊙	Total meter
Hall 4	⚡	Building meter, part technical centre, part PSF Lambda oven 240_29 (PRO) Test facilities 24900, 16736, 13714, 3645, ALPHA, BETA
	⊙	Tryal Systems 24900, 16736, 13714, 3645, Alpha, Beta
Hall 5	⚡	Building meters Hall 5-8, VA, E-Lab, Beta-Mill, Beta-IR-oven 240_33, Endcontrollstations
	💧	Building counters
Hall 6	⚡	Photovoltaic system
	💧	Building Counter
Hall 10	⚡	Building meter, Photovotaic system electricity
	💧	Building meter
Hall 21	⚡	Building meter
	💧	Building meter
Hall 22	⚡	Building meter
	🔥	Heating meter
	💧	Building meter
Parking P1 P2 P3	e	Electric vehicle charging stations (12 charging points)
	e	Electric vehicle charging stations (4 charging points)
	e	Electric vehicle charging stations (2 charging points)
Administration V1	⚡	Building meter, partial administration / caretaker / server room / server
	🔥	Total meters H01-H06, Heating
	💧	Building meters Halls 1-5, building meters
Administration V2	⚡	Building meter
	💧	Building meter, photovoltaic electricity
Tent halls Z1 Z2 Z3	⚡	Building meter, regeneration 240-16, BETA oven 240_25
	🔥	Building meter, steam jet 240_16
	💧	Building meter, material input 240_28, coating booth 240_28
Z4	⚡	Building meter

ENVIRONMENTAL INDICATORS FOR RESOURCE EFFICIENCY

Herding GmbH Filtertechnik's unique selling point is its filter medium. Thanks to high investments in research and development, the company has been able to maintain its innovative edge over its market competitors over the years. A decisive aspect is the use of resources and raw materials. Raw materials and sources of supply are clearly classified as proprietary information and are therefore trade secrets. Due to the limited raw materials market for high-quality raw materials, disclosing the sources of supply in combination with the respective reference values would be tantamount to a reproduction manual.

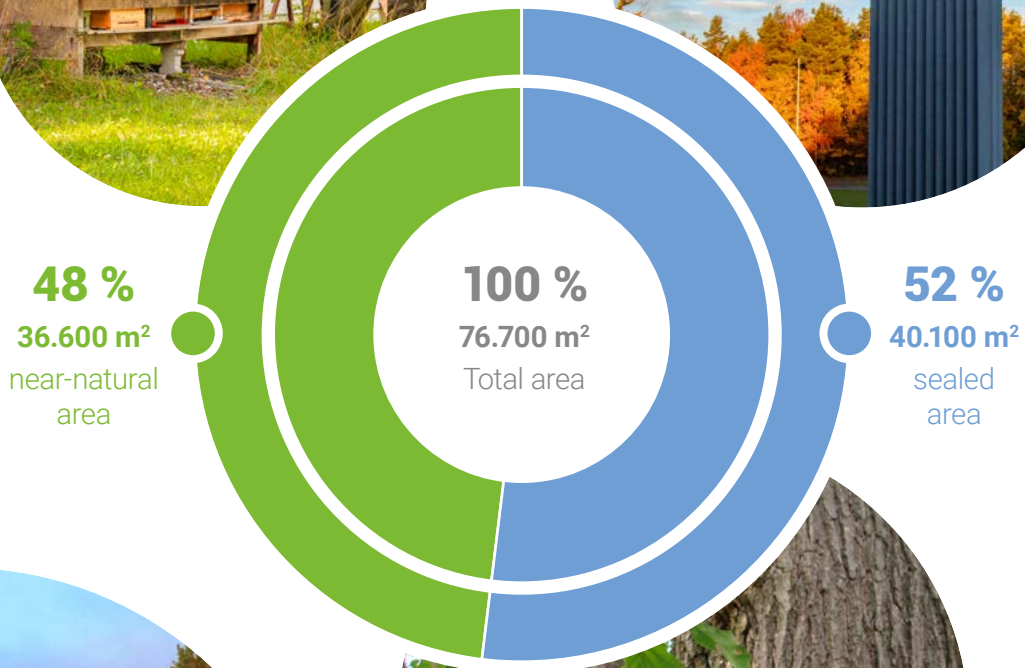
Of course, the company is also committed to continuous optimisation in this area, which is critically reviewed by the environmental verifier, to whom all information and key figures are disclosed. Only the publication of these company-critical key figures does not take place.

ENVIRONMENTAL INDICATORS FOR BIODIVERSITY

Our area in the Amberg industrial estate covers around 77,000 m². Almost half of the area is left in its natural state. We deliberately leave room for natural succession. In addition, native fruit trees were planted and flowering plants adapted to the location were established. The prescribed rainwater overflow basins on the site were created as biotopes for small creatures.

Our site also includes two rented halls on a plot of land in the neighbourhood, August-Borsig-Str. 10.

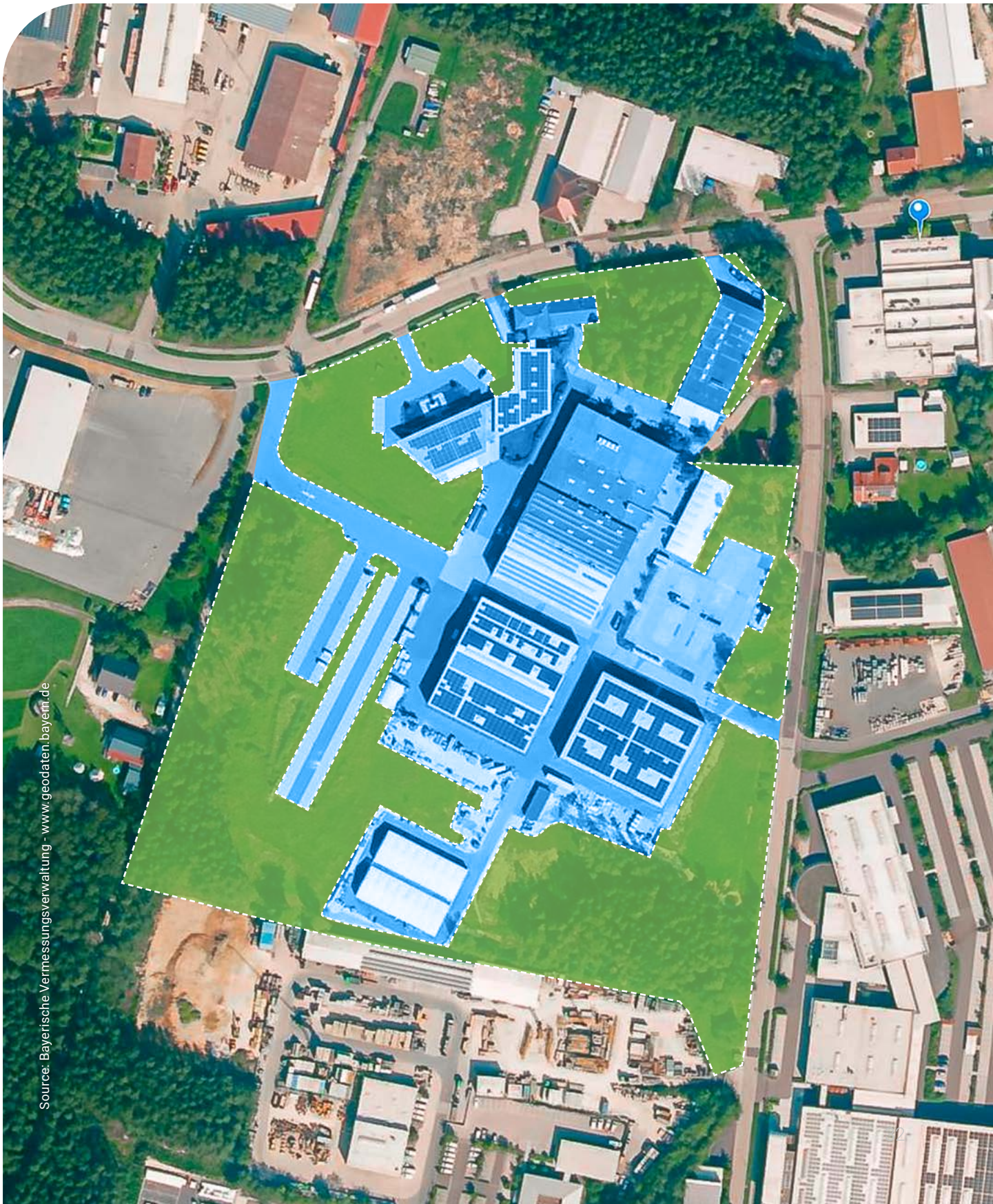
Hall 21 covers an area of 500 m², Hall 22 covers 900 m².



ENVIRONMENTAL INDICATORS FOR BIODIVERSITY

Near-natural area

Sealed area



Source: Bayerische Vermessungsverwaltung - www.geodaten.bayern.de

STRATEGIC GOALS

Waste heat potentials

The waste heat potentials have been recorded and are below the mandatory reporting threshold (total: 162 MWh).

Rainwater retention basin

Relocation of the rainwater retention basin. Planning with approval and submission to the responsible regulatory authority.

Fuel

Reduction of overall fuel consumption through further transition to electric vehicles and hybrids.

Electricity until 2025

- Increase in the share of self-generated electricity through photovoltaic systems and battery storage.
- In 2025, purchased electricity will be sourced 100% from renewable sources.

Workplace safety

- Number of workplace accidents < average of BGHM (reportable accidents)
- regular communication with the internal occupational safety committee.

Returns

The goal is to minimize complaint-related costs to less than 1% of revenue.

Flameless

Testing of Herding BETA filters for Herding FLAMELESS applications.

OPERATIVE GOALS

Digitalization Test Plan Q-035

Implementation in a Power App to increase efficiency and transparency.

Herding PRO Filter Element

The increased use of these filter elements with reduced pressure drop enables energy savings of approximately …3%.

Power meter

Installation of new electricity meters for detailed consumption monitoring.

Complaint Management

Mapping and processing all complaints in the new ERP system to optimize processes.

CO_2 Balance and Fleet

Calculation of the CO_2 balance according to WLTP and further transition to electric vehicles.

Coating sludge

Reduction of coating sludge. Separation of solids and liquids to minimize waste.

Repair of leaks

Ongoing measures for energy savings, e.g., for compressed air leaks.

CO_2 Self-Declaration

Preparation of CO_2 self-declarations for new and regenerated filter elements.

ADDITIONAL ENVIRONMENTAL PROTECTION MEASURES

- The reduction of reject rates in our production has a positive effect on the reduction of waste and the use of energy.
- Cascade utilisation of water in our production for cooling and cleaning contaminated filter media.
- Further development of an energy-optimised sintering process for new products that does not require any loss of cooling water.
- Our filter media can be regenerated several times and therefore have a long service life in their area of application. Multiple use also avoids waste.
- Development of energy-optimised sintering processes for new products based on our experience from previous production processes.
- Undeveloped areas of the company premises were left in a near-natural state. In addition, native fruit trees were planted and flowering plants adapted to the location were established.
- The prescribed rainwater overflow basins on the site were created as biotopes for small living organisms.
- Utilisation of solar thermal energy for domestic water heating.
- Steady increase in electric vehicles in our fleet.
- Promoting e-mobility among our employees by creating a charging infrastructure on the company premises.

Gültigkeitserklärung

Der Unterzeichnete, Peter Fischer, EMAS-Umweltgutachter mit der Registrierungsnummer DE-V-0060, akkreditiert oder zugelassen für den Bereich 28.25 Herstellung von lufttechnischen Erzeugnissen (nicht für den Haushalt), bestätigt, begutachtet zu haben, ob die gesamte Organisation, wie in der aktualisierten Umwelterklärung der

Herding GmbH Filtertechnik

August-Borsig-Str. 3

92224 Amberg

EMAS-Registrierungs Nr.: DE-166-00086

angegeben,

alle Anforderungen der Verordnung (EG) Nr. 1221/2009 des Europäischen Parlaments und des Rates vom 25. November 2009 über die freiwillige Teilnahme von Organisationen an einem Gemeinschaftssystem für Umweltmanagement und Umweltbetriebsprüfung (EMAS) in der ab 9. Januar 2019 gültigen Fassung erfüllen.

Mit der Unterzeichnung dieser Erklärung wird bestätigt, dass

- ✓ die Begutachtung und Validierung in voller Übereinstimmung mit den Anforderungen der Verordnung (EG) Nr. 1221/2009 durchgeführt wurden,
- ✓ das Ergebnis der Begutachtung und Validierung bestätigt, dass keine Belege für die Nichteinhaltung der geltenden Umweltvorschriften vorliegen,
- ✓ die Daten und Angaben der aktualisierten Umwelterklärung der Organisationen ein verlässliches, glaubhaftes und wahrheitsgetreues Bild sämtlicher Tätigkeiten der Organisationen innerhalb des in der Umwelterklärung angegebenen Bereichs geben.

Diese Erklärung kann nicht mit einer EMAS-Registrierung gleichgesetzt werden. Die EMAS-Registrierung kann nur durch eine zuständige Stelle gemäß der Verordnung (EG) Nr. 1221/2009 erfolgen. Diese Erklärung darf nicht als eigenständige Grundlage für die Unterrichtung der Öffentlichkeit verwendet werden.

Schwanstetten, den 09.12.2025

Peter Fischer

Peter Fischer
DE-V-0060
Umweltgutachter

IMPRINT

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