

# ENVIRONMENTAL DECLARATION

2023



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# FROM AN "OBERPFÄLZER" START-UP TO AN INTERNATIONAL CORPORATE GROUP

Herding Filtertechnik was founded 46 years ago. The technical ambition of company founder Walter Herding was to improve this "darned box" - he was referring to the filter system of the time. He worked tirelessly on a technical innovation that would solve a quite banal problem - the removal of dust from air - once and for all. The result was genuine "Oberpfälzer" engineering ingenuity. In today's terms, one would probably call it a disruption. A groundbreaking moment resonated across the filter sector - pure surface filtration was born. Together with its founding partner Gerhard Stich, the young company quickly became an internationally active holding company, currently under the leadership of Dr. Urs Herding and Andreas Stich in the second generation.

In 2022 alone, around 80,000 of these "miracle filters" were produced at the Amberg location. From laser cutting systems to pharmaceutical applications, battery industry to the food industry - the customers could not be more diverse. Herding filters and filter systems are used all over the world and continue to enjoy an excellent reputation.

This is largely attributed to the practically infinite lifespan and superior filtration performance of the filter elements. Sustainability is in Herding's genes.

Right from the start the company consistently reinvented itself and went along its own unique path. This applies not only to technology, but also to the organizational structure of the company itself. Today, the company takes pride in its unconventional but highly effective corporate culture.

The long-established Amberg-based company now employs over 400 people at its headquarters in Amberg with a production area of around 12,000m<sup>2</sup>.

To summarize, there are two main pillars at Herding. Filter technology and the WE. With these ingredients, it is still possible today to persistently refine "the darn box". The fact that this takes place in Amberg is no coincidence, but a vital part of the formula for success.



### 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.

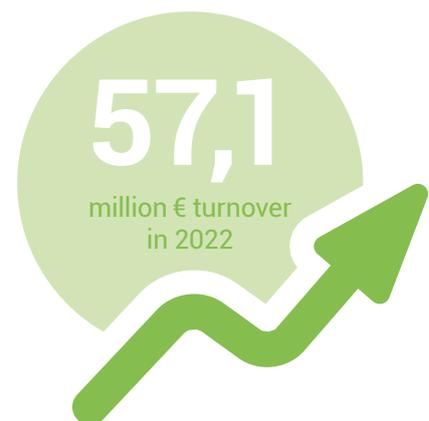
### WE ...

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**



**Activity NACE code 28.25**  
Manufacture of non-domestic  
aeronautical products

DUST IN –  
**AIR OUT**



PERSPECTIVES ON

# SUSTAINABILITY

## STEADY IMPROVEMENT

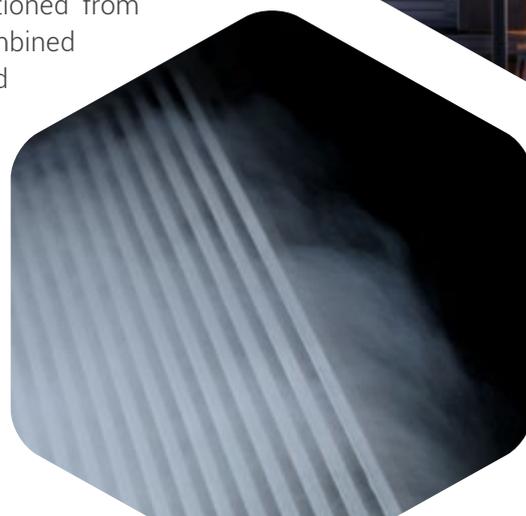
The pursuit of continuous and never-ending improvement is the core philosophy of KAIZEN. When applied and executed throughout the entire value creation process, this approach inevitably contributes to sustainability by reducing waste and resource consumption.

Through ongoing optimization of existing facilities, Herding in Amberg has achieved a remarkable increase in the production output of filter elements, reaching a peak of 80,000 per year. Investments in resource-intensive areas such as new facilities or buildings were unnecessary for this production sector.

## DISRUPTIVE INNOVATION AND DISRUPTION AS AN OPPORTUNITY

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<sub>2</sub> 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. The cumulative effect of the factors mentioned leads to a reduced CO<sub>2</sub> footprint across the entire product lifecycle.

Further support comes from alternative process technology. In 2022, a substantial portion of the filter production transitioned from gas furnaces to electric infrared furnaces. This, combined with the company's 720 kWp photovoltaic system and reduced energy consumption per filter element, marked another significant advancement towards greater sustainability, while simultaneously improving efficiency.



### LIFECYCLE MANAGEMENT

Many conventional filter media have a limited lifespan and need to be replaced with new filters. Aside from financial implications, the production and subsequent disposal of all these replacement filters involve the use of energy and other resources.

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.

To enhance our effectiveness in the field of regeneration and circular economy, we are increasingly focusing on the development of single-variety filters.

Rather than pursuing a profit-maximizing aftersales strategy, we believe in the success of meaningful sustainability, even in the spare parts business.

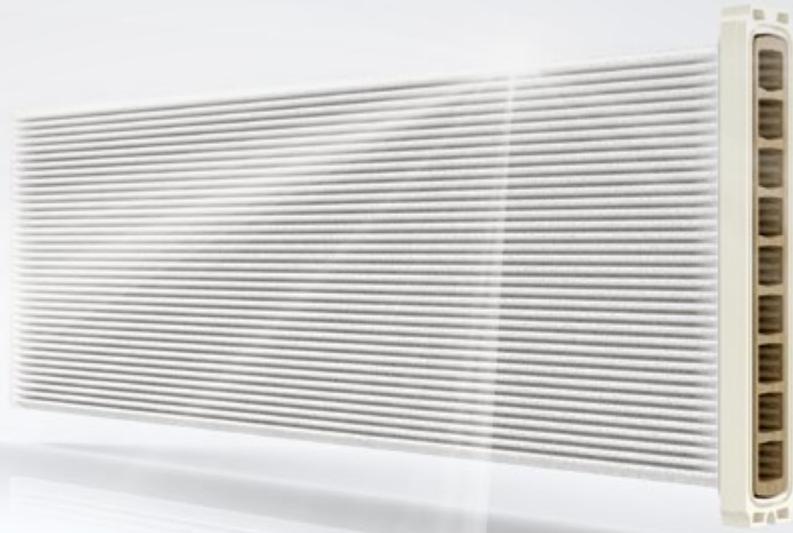
### COMPARABILITY AND VERIFICATION

For all participants in the machinery and plant engineering sector, keeping track of normative requirements is nearly impossible. Simultaneously, the rapid pace of developments in this field does not exempt us from operator responsibilities and legal obligations. Therefore, our commitment is to remain grounded, honest, and transparent, clearly outlining our position to ensure planning certainty for our partners.

On the one hand, this is due to our longstanding certification according to ISO 50001:2018, and now we are also delighted to announce our validation under EMAS. Direct dialogue with our partners is our top priority. We maintain a fully transparent approach, with the objective of addressing potential questions in the most direct way.

Even when it comes to sustainability, we remain true to our motto - pure productivity.





HERDING

# FILTER TECHNOLOGY

The Herding filter technology bases on pure surface filtration. It sustainably protects man and machine from harmful production emissions and enables absolutely pure and contamination-free material recovery. This increases directly your productivity.

Lowest clean gas values, absolutely constant operating conditions, highest availability and energy efficiency are key features of the innovative technology. Herding® filter elements show extreme durability and, depending on the process, long service life times of more than 15 years. Thereby the filters make 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

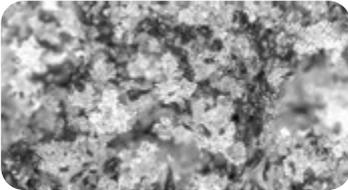
# PRODUCTS

## FILTER MATRIX

### Compact rigid body

#### Herding DELTA, PRO, HSL

Sintered PE (polyethylene)



#### Herding BETA

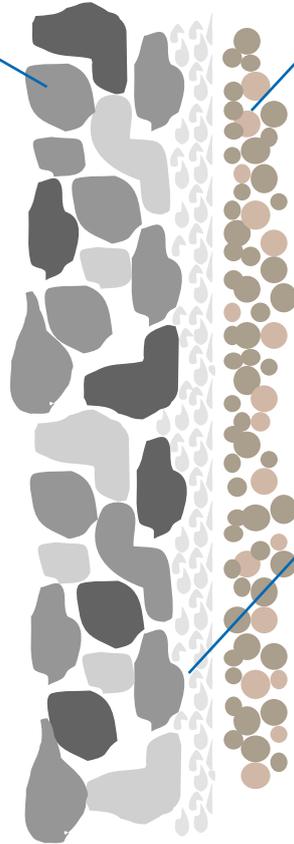
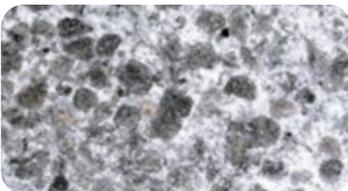
Sintered PPS

(polyphenylene sulfide)



#### Herding ALPHA

Clay with ceramic binder



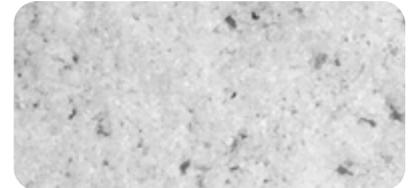
## EFFECTIVE PRODUCT SEPARATION

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, 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 DELTA DELTA²	Herding PRO³	HSL	HSL-C	Herding BETA	Herding ALPHA
Operating temperature up to max. [°C]	70	70	70	100	160	450
Residual dust content [mg/Am³]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.5	< 2.0
Filter surface area per filter element [m²]	1.10 - 7.10	3.15	0.54 - 7.64	0.89 - 7.64	2.20 - 4.75	3.00
Adhesive dusts (with precoating)	✓	✓	✓	✓	✓	✓
Abrasive dusts	✓	✓	✓	✓	✓	✓
Regeneration	✓	✓	✓	✓	✓	✗
Coating with PTFE	✓	✓	✓	✓	✓	✗
DustExZoneBarrier acc. to VDI 2263	✓	✓	✓	✓	✓	✗
Clean air recirculation (depending on the dust class)	✓	✓	✓	✓	✓	✓
Antistatic / dissipative version	✓	✗	✓	✓	✗	✗
Non-chargeable version	✓	✓	✓	✓	✓	✗
Pharmaceuticals/Foods EU approved	✗	✗	✓	✓	✓	✗

(EG) 135/2004 (EU) 10/2011

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.

Herding **MAXX**

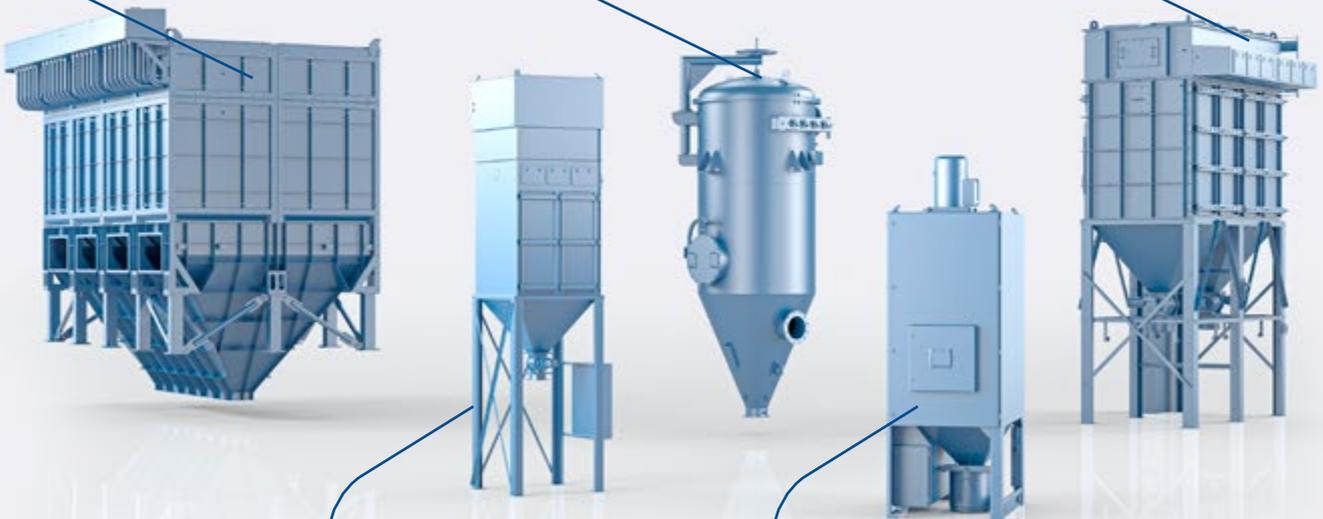
For very high air flows

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**

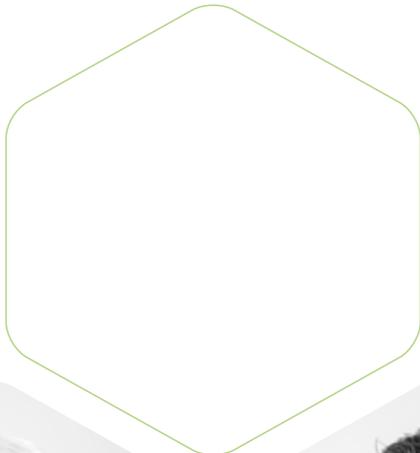
The compact filter system for limited space



# ORGANISATIONAL STRUCTURE



DR. URS HERDING



MELINA FLEISCHMANN



WOLFGANG RAABE



FABIAN SCHÜNKE



HERMANN PRÖLB



MARIO SCHMID



SEBASTIAN RUPPRECHT



MANFRED DAUCHER

**Management:**

Dr. Urs Herding, Wolfgang Raabe, Fabian Schünke

**Environmental Management Officer:**

Hermann Prölb

**Quality Management Officer:**

Melina Fleischmann

**Waste Manager:**

Manfred Daucher

**Hazardous Substance Officer:**

Sebastian Rupprecht, Representation Mario Schmid

# ORGANISATIONAL STRUCTURE



# 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, both in the manufacturing process and in the application of our products.

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.

Products, systems and services, both internally and externally, are of course procured or produced in accordance with applicable environmental protection regulations, EU directives and regulations, as well as the Product Safety Act. Moreover, the constant improvement of the company's energy-related performance is a key consideration for business decisions. Considering alternative scenarios during the decision-making phase assists in adjusting the pivotal aspects of the overall energy consumption.



## LEGAL FRAMEWORK

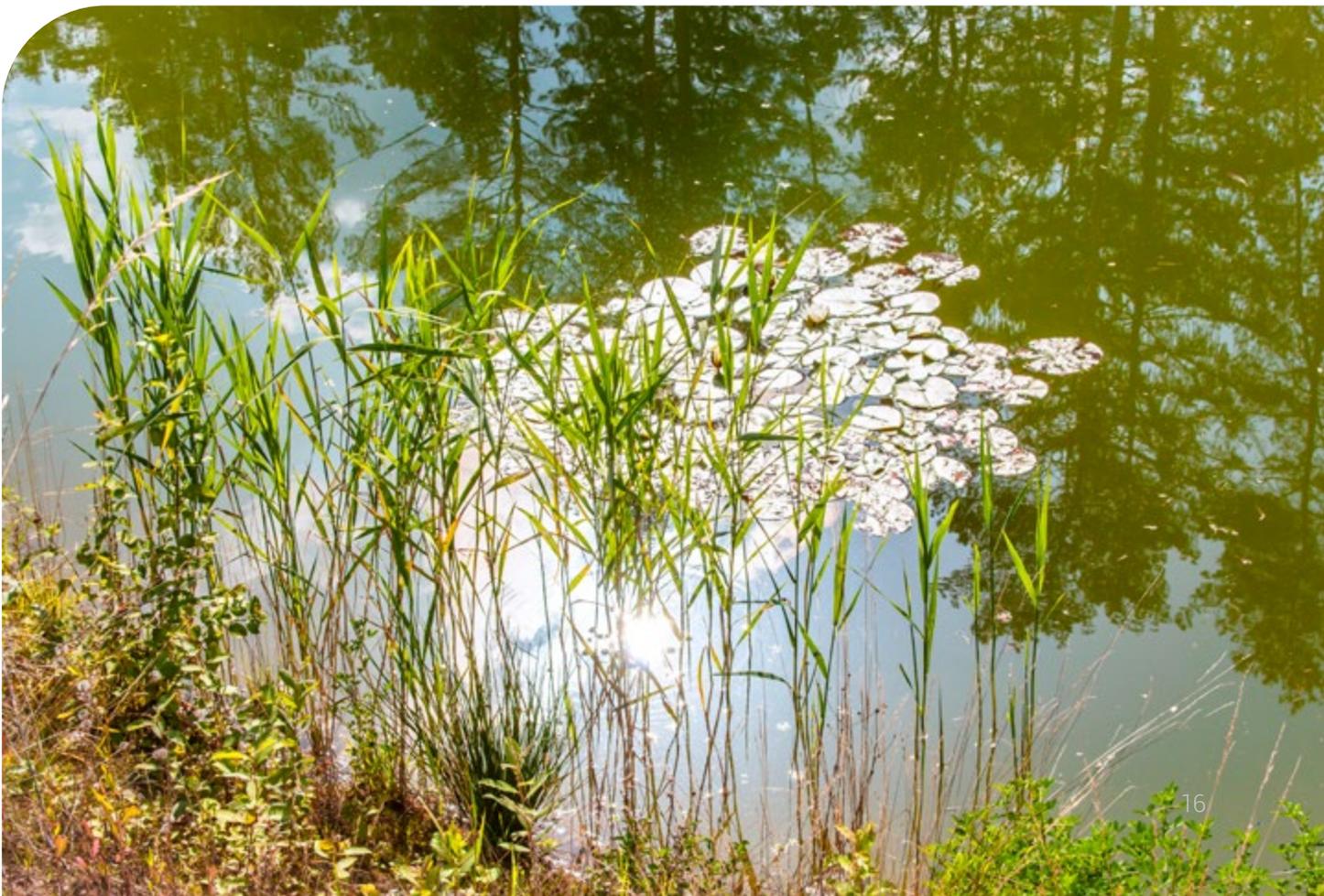
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It goes without saying that we comply with applicable law. To this end, we systematically and regularly identify relevant laws, regulations, directives, standards and other binding obligations. We actively comply with these and check the effectiveness of our implementation through internal feedback mechanisms, regular internal audits and external monitoring by experts and approval authorities.

To manufacture our products, we operate technical facilities that convert energy, introduce foreign substances into the water and generate waste that cannot be reused. The operation of these plants is regulated for us in authorisation notices.

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.



# ENVIRONMENTAL IMPACT

Classification



Environmental aspect	Meaning	Possibilities of influence
● Emissions	<ul style="list-style-type: none"> <li>Air pollution control</li> </ul>	<ul style="list-style-type: none"> <li>Regular visual inspections</li> <li>Compliance with legal inspection requirements</li> </ul>
● Odour	<ul style="list-style-type: none"> <li>Odour emissions into the environment</li> <li>Odour emissions at the workplace</li> </ul>	<ul style="list-style-type: none"> <li>Additional ventilation and extraction</li> <li>Occupational safety measures</li> <li>Training and instruction</li> </ul>
● Dust	<ul style="list-style-type: none"> <li>Metalworking</li> <li>Raw material handling</li> <li>Product processing</li> </ul>	<ul style="list-style-type: none"> <li>Dust collection at the workplace</li> <li>Occupational safety measures</li> <li>Training and instruction</li> </ul>
● Waste	<ul style="list-style-type: none"> <li>Consumption of raw materials</li> <li>Logistics</li> <li>Costs</li> </ul>	<ul style="list-style-type: none"> <li>Low-waste purchasing</li> <li>Dialogue with suppliers</li> <li>Recycling systems</li> <li>Positioning and signposting of collection points for waste fractions</li> <li>Training and instruction</li> <li>Proper disposal of residual quantities</li> </ul>
● Raw materials	<ul style="list-style-type: none"> <li>Land use and environmental pollution in the countries of origin</li> <li>Consumption of non-renewable raw materials</li> </ul>	<ul style="list-style-type: none"> <li>Request environmental measures from the supplier</li> <li>Purchasing criteria are price and delivery time, certifications of the supplier play a lesser role</li> </ul>
● Auxiliary materials	<ul style="list-style-type: none"> <li>Environmental impact of production and disposal</li> <li>Potential hazards in the workplace during use</li> </ul>	<ul style="list-style-type: none"> <li>Testing the substitution of hazardous operating materials</li> <li>Occupational safety measures</li> <li>Training and instruction</li> </ul>
● Electricity	<ul style="list-style-type: none"> <li>Main form of energy for office and production processes</li> </ul>	<ul style="list-style-type: none"> <li>Purchase of renewable energies</li> <li>Expansion of PV systems for own use</li> </ul>
● Heat	<ul style="list-style-type: none"> <li>Natural gas is the main form of energy used to heat buildings</li> </ul>	<ul style="list-style-type: none"> <li>Waste heat utilisation for heat support</li> <li>Use of renewable forms of energy to support heat generation</li> <li>Alternative heat generation</li> </ul>
● Fuel	<ul style="list-style-type: none"> <li>Vehicle fleet</li> </ul>	<ul style="list-style-type: none"> <li>Leasing of consumption-optimised combustion vehicles</li> <li>Switch to electric vehicles</li> </ul>
● Water	<ul style="list-style-type: none"> <li>Water consumption for household and sanitary needs</li> <li>Production water for suspension, cooling and cleaning</li> </ul>	<ul style="list-style-type: none"> <li>Training and instruction</li> <li>Solids separator</li> <li>Sink tank</li> <li>Recirculation</li> <li>Cascade utilisation</li> <li>Regular visual inspection</li> <li>Compliance with legal test specifications</li> </ul>

# 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:

<b>Year</b>	<b>Employees</b> [Number]	<b>Filter elements</b> Pieces [Pcs]	<b>Turnover</b> Thousand Euro [T€]
2017	285	52.342	36.345
2018	326	66.649	41.683
2019	353	76.791	44.516
2020	352	54.970	42.725
2021	368	70.699	50.542
2022	382	75.607	57.123





### APPROACH AND BALANCE SHEET LIMITS

# ENVIRONMENTAL STATEMENT

The carbon footprint is prepared in accordance with the Greenhouse Gas Protocol corporate standard. For this purpose, the basic formula for calculating emissions is applied, which multiplies the emission factor by the corresponding energy consumption.<sup>1</sup> The calculations are primarily carried out using the bottom-up approach, in which emissions are determined at the level of individual sources or plants and then extrapolated to company level.<sup>2</sup> Gas and electricity meters are used for the necessary measurements, and purchasing and maintenance logs are evaluated. The results are then summarized separately by energy source, Scope 1 and Scope 2, as well as overall.

The choice of emission factors is based on the analysis of several freely available sources, with national and regional sources being favoured. The balance sheet limits are defined by categorizing Scope 1 and Scope 2 emissions. Scope 1 refers to direct emissions from energy consumers that are owned or controlled by the company. Scope 2, on the other hand, comprises the emissions resulting from the generation of purchased energy and energy consumed by the company.<sup>3</sup>

The recorded greenhouse gas emissions, which include CO<sub>2</sub>, SF<sub>6</sub>, CH<sub>4</sub>, N<sub>2</sub>O, HFCs/PFCs and PFCs, are converted into CO<sub>2</sub> equivalents at the level of categorisation into energy sources. Emissions of SO<sub>2</sub>, NO<sub>x</sub> and particulate matter are listed separately for natural gas, electricity and fuels.

Most CO<sub>2</sub> equivalents are generated by the direct combustion of natural gas in the process plants. Between 2017 and 2022, these emissions are on average around 9.4% higher than the quantities resulting from the use of the Amberg electricity mix. This has the highest emissions consumption in the Scope 2 emissions category. The use of diesel company vehicles also makes a noticeable contribution to Scope 1 emissions. This is followed by the heating systems that run on natural gas.

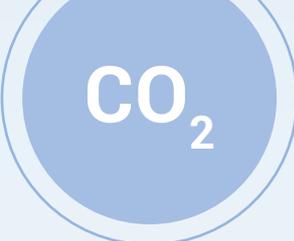
The highest air emissions are caused by diesel vehicles in Scope 1 and by the Amberg electricity mix in Scope 2.

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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

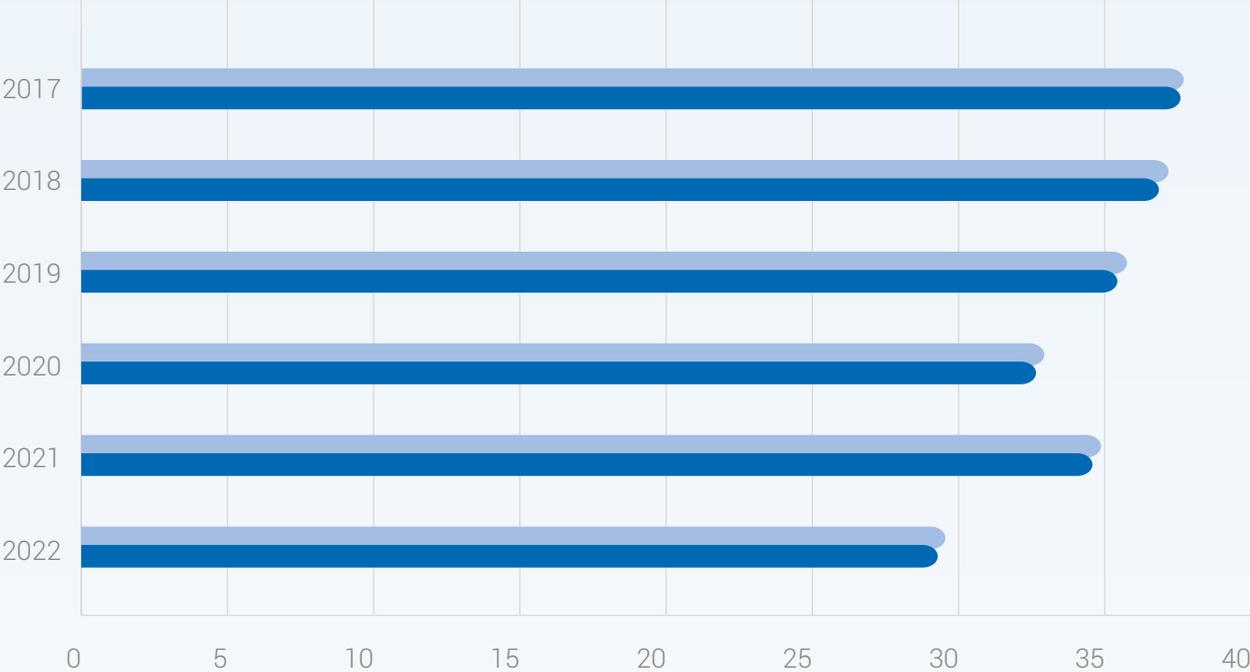


# ENVIRONMENTAL INDICATORS FOR CLIMATE-RELEVANT GASES

## kg CO<sub>2</sub> per T€-Turnover

with savings

without savings

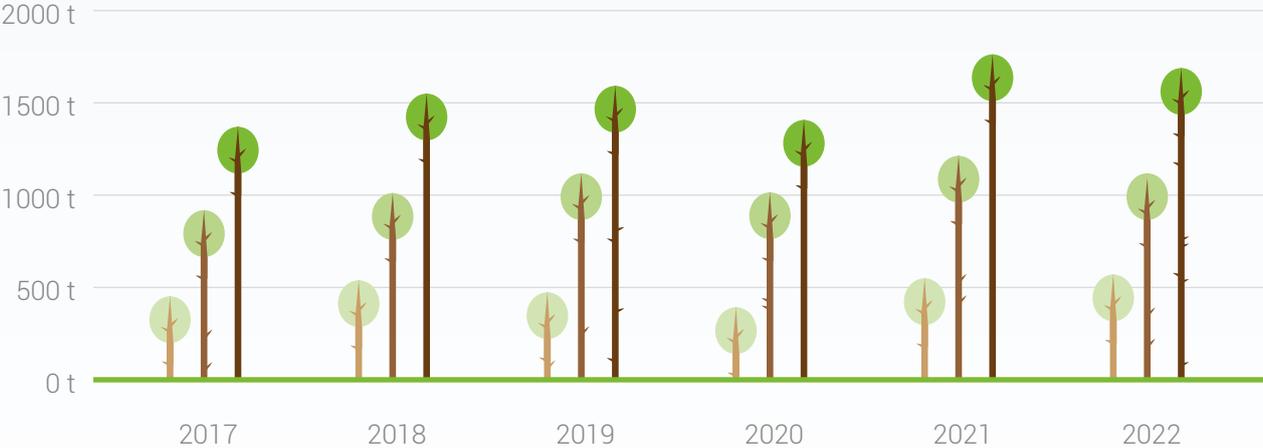


## CO<sub>2</sub> equivalents

Scope 2 (t)

Scope 1 (t)

Herding total (t)



## ENVIRONMENTAL INDICATORS FOR EMISSIONS

Emissions	Factor	Unit	2017	2018	2019	2020	2021	2022
<b>Gas consumption</b> Total		MWh	3.393	3.760	4.158	3.772	4.542	3.764
<b>SO<sub>2</sub></b>	1 g / MWh	kg	3	4	4	4	5	4
<b>NO<sub>x</sub></b>	74 g / MWh	kg	251	278	308	279	336	279
<b>PM</b>	0 kg / MWh	0	0	0	0	0	0	0
<b>Turnover</b>		T€	36.345	41.683	44.517	42.726	50.543	57.124
<b>SO<sub>2</sub> relative</b>	1 g / MWh	kg / T€ Turnover	0.000093	0.000090	0.000093	0.000088	0.000090	0.000066
<b>NO<sub>x</sub> relative</b>	74 g / MWh	kg / T€ Turnover	0.006908	0.006675	0.006912	0.006533	0.006650	0.004876
<b>PM relative</b>	0 kg / MWh	0	0	0	0	0	0	0

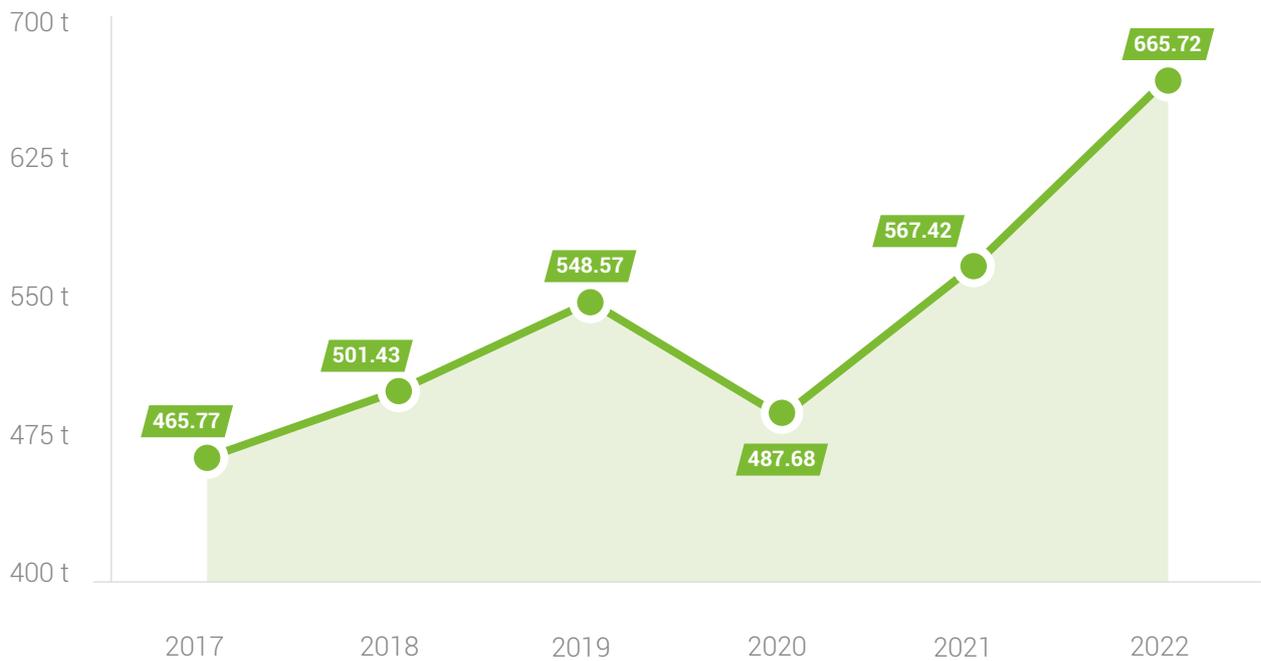
<b>Particulate matter from electricity and diesel / petrol</b> Total		kg	20.89	18.06	18.22	13.62	19.73	19.92
	Scope 1	kg	9.07	10.22	11.05	7.86	8.47	7.98
	Scope 2	kg	11.82	7.84	7.17	5.76	11.26	11.94
	relative	g / T€ Turnover	0.57	0.43	0.41	0.32	0.39	0.35

# ENVIRONMENTAL INDICATORS FOR WASTE



Our main "new sheet" waste quantities are heavily dependent on the variants of our filter housings produced. Depending on the size of the system, the sheet metal can be utilised to varying degrees. The vast majority of metal waste is melted down again and fed back into the material cycle as new material.

## Total annual amount of waste



## Waste distribution 2022 in tonnes

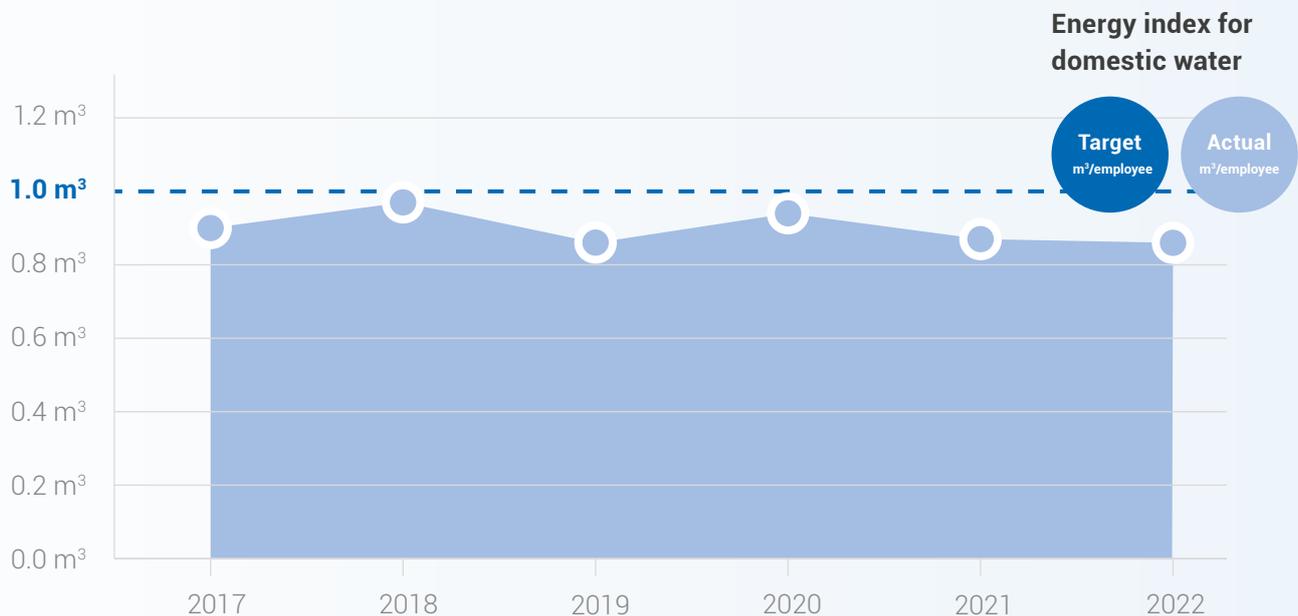
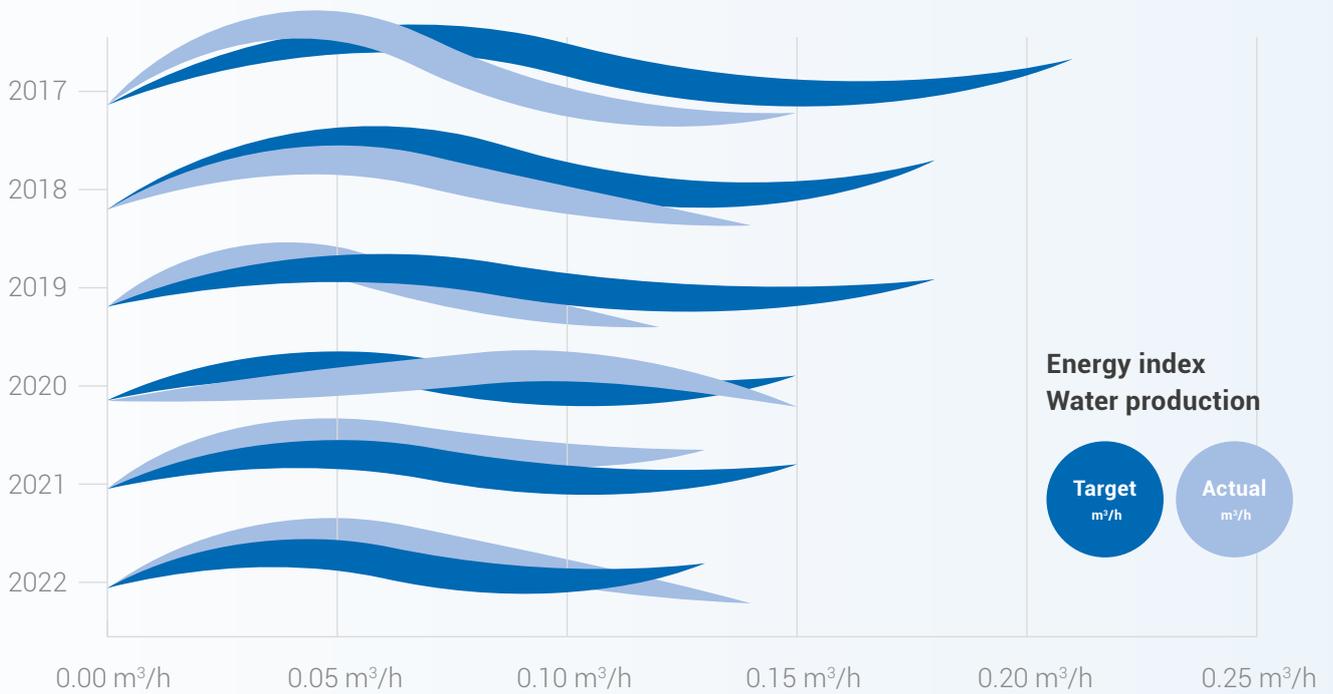


# ENVIRONMENTAL INDICATORS FOR WATER



Water consumption is divided into two main groups. Water for the production of our filter elements and for sanitary requirements.

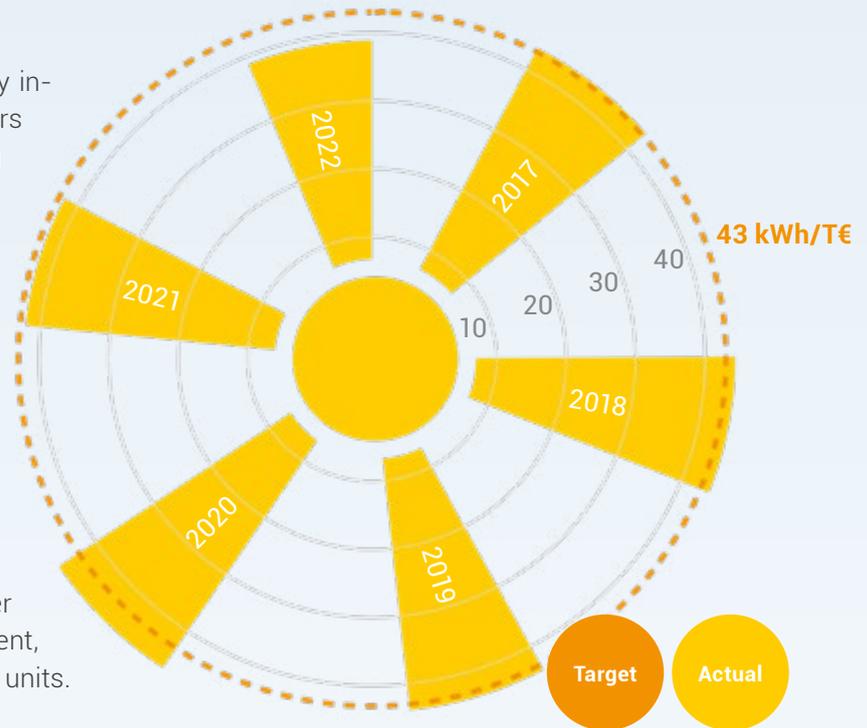
	Unit	2017	2018	2019	2020	2021	2022
<b>Total water consumption</b>	m <sup>3</sup>	7372	8889	9254	7802	8953	10381
<b>Number of employee work days</b>	days	60280	66880	74360	76560	78320	82280





## ENVIRONMENTAL INDICATORS FOR ELECTRICAL ENERGY

The trend in energy savings is statistically influenced by the special features of the years 2020 and 2022. In 2020, a shift decoupling of employees had to be ensured due to corona, resulting in idle times in production, which in turn had a negative impact on energy consumption and the electricity and gas key figures shown. In 2022, raw materials became more expensive worldwide, which higher purchase prices, higher sales prices and therefore a partial increase in sales from € 50.5 million to € 57.1 million. The production of filter elements did not increase to the same production of filter elements did not increase to the same extent, but rose moderately from 70,700 to 75,000 units.



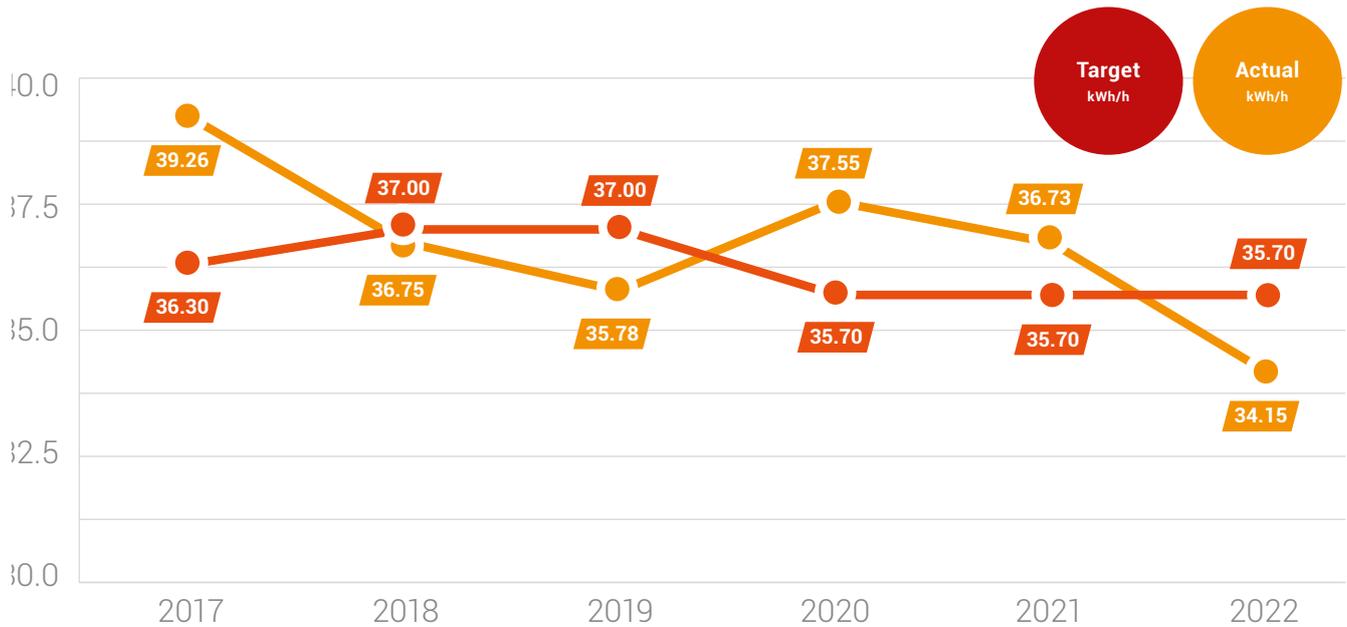
	Unit	2017	2018	2019	2020	2021	2022
<b>Total energy consumption</b>	MWh	4.940	5.561	6.094	5.660	6.575	5.951
<b>Total power consumption</b>	MWh	1.547	1.801	1.936	1.888	2.033	2.187
<b>Proportion renewable</b>	%	0	0	0	0	0	1,24
<b>Total gas consumption</b>	MWh	3.393	3.760	4.158	3.772	4.542	3.764
<b>Gas as process heat</b>	MWh	1.968	2.370	2.657	2.013	2.529	2.337
<b>Proportion</b>	%	58	63	64	53	56	62
<b>Gas for heating</b>	MWh	1425	1389	1501	1759	2013	1427
<b>Proportion</b>	%	42	37	36	47	44	38





## ENVIRONMENTAL INDICATORS FOR HEAT

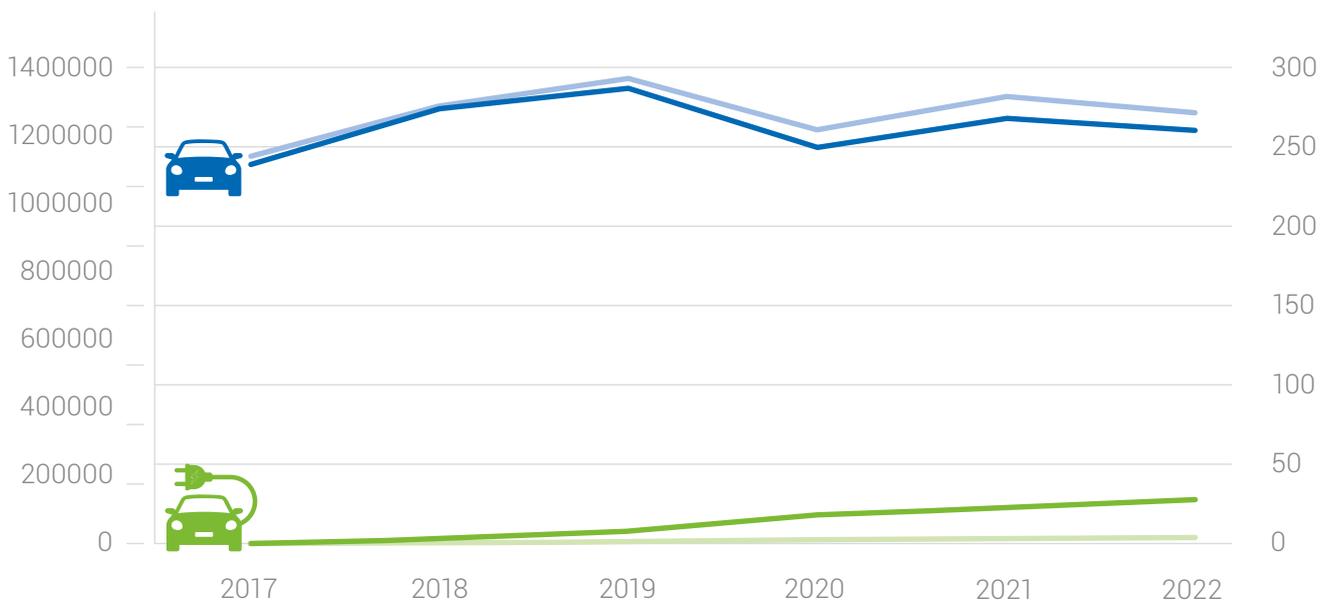
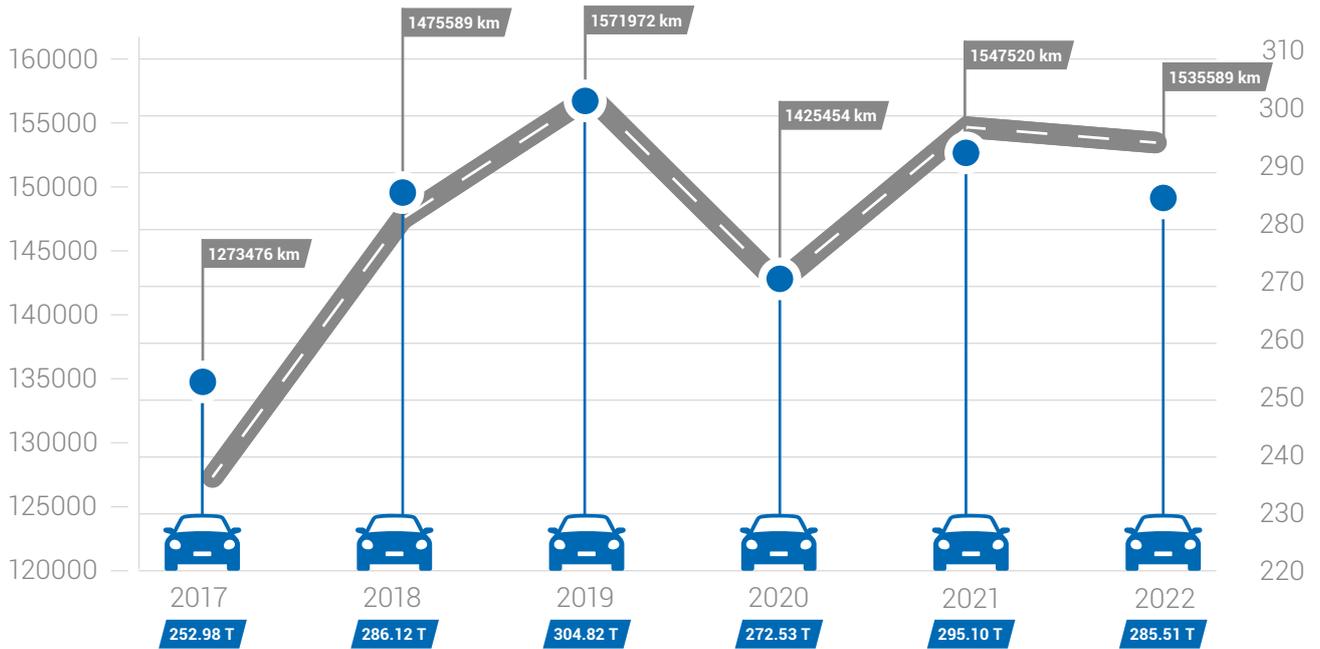
Natural gas consumption is divided into the production and heating areas. In production, the switch from natural gas to electricity-based production was heralded by the commissioning of the first plant at the end of 2022. In 2020, the shift decoupling due to the corona measures taken is visible in the production key figure. Here, the relative gas consumption increases in the short term, as the production plants have longer idle periods.



# ENVIRONMENTAL INDICATORS FOR FUEL



Our car fleet is constantly being replaced with fuel-optimised combustion engines or electric vehicles. This can be recognised by the lower CO<sub>2</sub> emissions despite similar mileage. 16 charging points for electric vehicles are available for all employees to use free of charge. E-bikes can also be charged free of charge in a covered car park.



- km Total combustion engine
- km Total electric
- CO<sub>2</sub> emissions from combustion engines (T)
- CO<sub>2</sub> emissions from electric (T)



## ENVIRONMENTAL INDICATORS FOR RESOURCE EFFICIENCY

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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 m<sup>2</sup>. 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 m<sup>2</sup>, Hall 22 covers 900 m<sup>2</sup>.



**48 %**  
36.600 m<sup>2</sup>  
near-natural  
area

**100 %**  
76.700 m<sup>2</sup>  
Total area

**52 %**  
40.100 m<sup>2</sup>  
sealed  
area

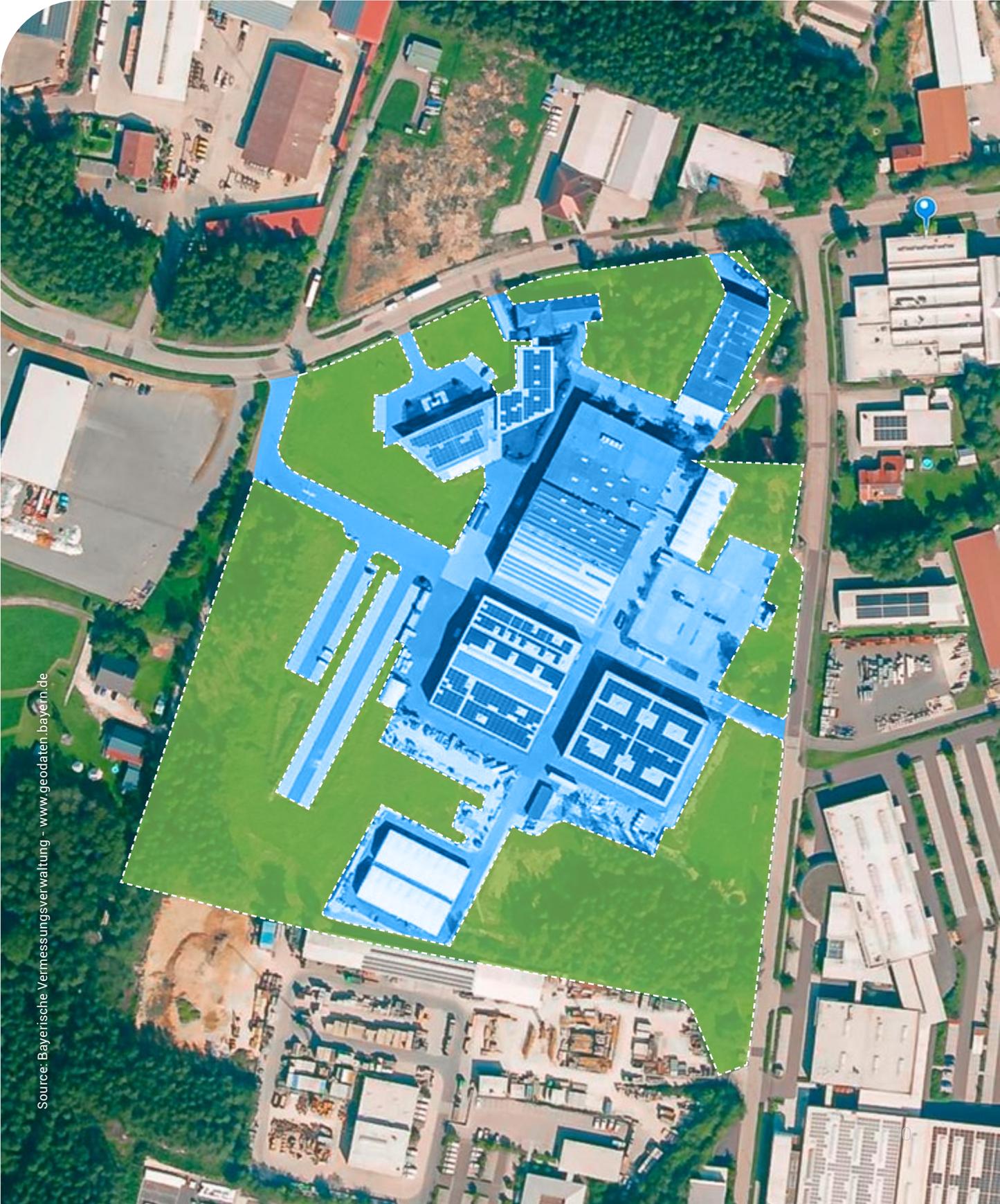


# ENVIRONMENTAL INDICATORS FOR BIODIVERSITY



Near-natural  
area

Sealed area



Source: Bayerische Vermessungsverwaltung - [www.geodaten.bayern.de](http://www.geodaten.bayern.de)

# OUR GOALS - ENVIRONMENTAL INITIATIVE

## STRATEGIC GOALS



### Gas

- Replacing the energy source on the two Herding DELTA ovens (240\_02 und 240\_04)
- Gas consumption in V02 only for heating. Switch cooling to alternative technology.



### Gas/Electricity

New plans for production facilities (Herding BETA) and heating in Hall 10 without gas as an energy source.



### Electricity

Utilisation of 5% self-generated electricity based on total electricity consumption, increasing to 20% in 2024.



### Total energy

Reduce total energy consumption by 2% in relation to sales. Target by the end of 2024 for the reference year 2021.



### Fuel

Reduction in overall fuel consumption through further switch to electric vehicles and two electric forklift trucks.



### Accidents at work

Number of accidents at work < average of BGHM (reportable accidents)

## OPERATIONAL GOALS



### Energy saving when customers use the product

Explanation: The optimised Herding PRO filter elements are installed in the Herding FLEX system series, so that users achieve energy savings of approx. 3 % during operation compared to the FLEX series. The saving is achieved by reducing the pressure loss; the value is determined under reference conditions.



### Product

Energy consumption Herding FLEX PRO 3 % < Herding FLEX



### Electricity

Continuous search for and elimination of compressed air leaks. Utilising the company's own power generation.



### Fuel

- Calculation of the CO<sub>2</sub> balance based on the WLTP values and expected annual distances.
- Procurement of e-vehicles to reduce average consumption

## 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.
- Utilisation of waste heat from our energy-intensive production processes for other production areas.
- 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 den Bereich 28.25 Herstellung von lufttechnischen Erzeugnissen (nicht für den Haushalt), bestätigt, begutachtet zu haben, ob die gesamte Organisation, wie in der Umwelterklärung der

### **Herding GmbH Filtertechnik**

August-Borsig-Str. 3  
92224 Amberg

angegeben,

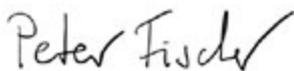
alle Anforderungen der Verordnung (EG) Nr. 1221/2009 des Europäischen Parlaments und des Rates vom 25. November 2009 über die freiwillige Teilnahme von Organisationen an einem Gemeinschaftssystem für Umweltmanagement und Umweltbetriebsprüfung (EMAS) in der ab 9. Januar 2019 gültigen Fassung erfüllen.

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 22.12.2023



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Peter Fischer  
DE-V-0060  
Umweltgutachter

# IMPRINT

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