



ENVIRONMENTAL STATEMENT

2022

Werner & Mertz GmbH

ERDAL-REX GmbH

Tana-Chemie GmbH

Werner & Mertz Service & Logistik GmbH

BNS International GmbH

Rheinallee 96

D-55120 Mainz

As of: 5 May 2022



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In this Environmental Statement the generic masculine pronoun is used for ease of reading. Feminine and other gender identities are explicitly included wherever required by the context.



1. Foreword from Management

A sustainable lifestyle for us all

For Werner & Mertz, sustainability is not a passing trend, but an established and diligently maintained company tradition.

Every year since 2003 we have released an Environmental Statement in which we report the progress our company has made in ecologically compatible and resource-conserving manufacturing. The Environmental Statements for the Werner & Mertz sites in Mainz and Hallein document the company's activities in ecological terms. As we see it, sustainability rests on three pillars—economic, social and environmental—all of which we monitor closely.

We are certain that consumers seek companies for which social and ethical issues are as just as important as ecological criteria. We have learned that customers appreciate our products' quality, productivity and manufacturing methods and the chance to bring sustainability into everyday life.

"The care of all good things" is the Werner & Mertz credo. It expresses how we link appreciation and value preservation with attentive care.

With EMAS, the most comprehensive and demanding environmental certification system, we can prove how consistently our sustainability philosophy is actually practiced in our company. EMAS makes a substantial contribution to deepening the trust our customers place in our products.

In 2019 our integrally sustainable corporate philosophy received the German Environmental Award. It is a great honor that brings with it the responsibility to continue along this path in the future.



We hope that our activities will prompt other companies and consumers to emulate us. Our efforts will succeed if we present all facets of sustainability – including accomplishments and future challenges – in an understandable and appropriate way.

Medium-sized companies in particular, like ours with the Frosch brand, use this combination of environmental management und environmental audits to create a distinctive corporate image.

Reinhard Schneider

Chairman of the Management Board



2. The Company

The well-known brands from Werner & Mertz are found throughout Europe and in some overseas countries. Since 2011 Japan has contributed to the success of our Frosch products. Our customers' brand loyalty forms a solid basis for developing new markets.

The strategy of the Werner & Mertz Group concentrates on two fields of competence. In the traditional Consumer Division, the focus is on private end users to whom we offer an extensive product portfolio for household cleaning and care. The Professional Division supports commercial bulk customers with specialized care products and services.

Werner & Mertz has remained loyal to its Mainz site since the company's founding. Our headquarters are here and will remain here in the future. Mainz is the home of the company's core functions of product development, product supply, marketing, administration and logistics. The companies Erdal-Rex GmbH, Tana-Chemie GmbH, BNS International GmbH and Werner & Mertz Service & Logistik GmbH are wholly-owned subsidiaries of Werner & Mertz GmbH. They too are located in Mainz.

The Austrian companies of the Werner & Mertz Group are located in Hallein near Salzburg. Approximately 160 employees work there in production, administration and in two sales companies. Since 1953 small series for the Consumer and Professional Divisions have been manufactured in the conveniently situated city on the Salzach. Back in 2014 work began on converting the Erdal site in Hallein for specialization in small-volume articles. Within the Werner & Mertz Group, Hallein has been developed into the competence center for shoe care, Frosch hand soap, Frosch Senses shower gel and Frosch room fresheners.

Our commitment to the German and Austrian sites demonstrates our respect for local corporate conditions, extensive social benefits, high educational levels and ecological awareness.



Awards and Certificates

For many years the Werner & Mertz Group has received ISO 14001 certification for its production sites. ISO 14001 is the international standard for a globally valid environmental management system. With this certification we prove the implementation and maintenance of a recognized and independently audited environmental management system.

With EMAS certification for both production sites, Werner & Mertz also has evidence of its exemplary ecological orientation along the entire value chain. EMAS is the acronym for "Eco-Management and Audit Scheme", which also is known as "EU eco-audit".

What makes EMAS so special?

- Highest environmental standards based on strict EU criteria
- Annual internal audit
- Annual external audit conducted by independent environmental auditors
- Proof of the continuous improvement in environmental performance
- Employee involvement
- 100% legal compliance
- External communication regarding the environmental system

Our Mainz site has been EMAS certified since 2003. In addition to ISO 14001 and EMAS certifications, the above-mentioned companies on the Mainz site have an ISO 50001-certified Energy Management System.

Furthermore, Werner & Mertz GmbH has been certified by the International Featured Standards for Household and Personal Care (HPC) products and ISO 9001. Tana-Chemie GmbH also holds ISO 9001 certification and thus has proof of an internationally recognized Quality Management System.



IFS HPC, an international standard that guarantees the safety and quality of household and personal care products, emphasizes compliance with customer agreements and the protection of the end consumer.

The Werner & Mertz Group was the first medium-sized corporate group to join the A.I.S.E. Charter for Sustainable Cleaning. (A.I.S.E. is the International Association for Soaps, Detergents and Maintenance Products.)

The European Ecolabel is the driving force behind the promotion of environmentally friendly formulas for cleaning products. The environmental flower was created in the mid-1990s to serve as the environmental label for Europe. As the frame for all the national eco-labels, it sets high requirements for environmentally friendly products. Many of our cleaners for consumers and Green Care Professional products from Tana-Chemie GmbH now have Ecolabel certified formulas.

For the first time in Europe a product from the cleaning industry—Frosch Citrus Shower & Bath cleaner—received the ambitious award Cradle to Cradle Certified™ Gold in June 2013. Since 1986 the Frosch brand has been on the market, which makes it an eco pioneer from the start, a fact confirmed by the Cradle to Cradle certification.

In 2013 the first cleaning and care assortment in the professional segment, containing our eight Green Care Professional products, was awarded Cradle to Cradle Certified™ Gold. By the end of 2021, 52 Professional products and three Frosch products had received Cradle to Cradle certification.



3. Statutory Regulations

Werner & Mertz is located in the industrial area "Ingelheimer Aue" in the northwest section of Mainz.

Permits are on file for all systems and operations areas governed by the Federal Immission Control Act (BImSchG). The company also holds permits pursuant to the water laws for its wells, the demineralization system, wastewater discharge from the wastewater treatment system and direct discharge. Required construction permits have been granted for all buildings, the solvent tank storage, barrel storage and the recycling center.

We have determined the legal requirements for the Immission Control Act (production), water laws (wells and wastewater), waste regulations (disposal), handling hazardous substances (dangerous goods/Hazardous Materials Act), occupational safety legislation and contaminated sites. Within the framework of the EMAS certification, our company ensures adherence to all legally relevant regulations and applicable notifications. We have implemented a digital legal system into which we enter the latest statutory regulations (from the EU, federal, state and municipal levels) monthly and distribute the information to affected parts of the company. Changes in laws are regularly reviewed with regard to their relevance for our business. Suitable measures are implemented to comply with new regulations.



4. Milestones in Environmental and Energy Management

1986	With the launch of the Frosch brand, Werner & Mertz established the successful product line of environmentally friendly household cleaners.
1987	Werner & Mertz separated its wastewater network into two systems for production wastewater: one for water that requires pretreatment and another for sanitary and other wastewater that requires no pretreatment.
1989	Construction of physiochemical wastewater pre-treatment system. Launch of the Tana-Chemie "Green Series" of environmentally friendly cleaners for bulk customers.
1990	Use of pigging technology to clean pipelines; as a result, the amount of rinsing water could be reduced significantly.
1991	The conversion of the boiler building from heavy heating oil to natural gas greatly reduced emissions. Extra-light (EL) heating oil can be used as needed to generate steam.
1994	The production equipment for household cleaners in building 1 is rebuilt and automated. An important effect: decreases in energy, wastewater and waste.
1995	Business partner (ALPLA) moves onto Werner & Mertz premises to manufacture packaging close to production lines. The relocation eliminates 1,500 truck transports (about 900,000 km), which eliminates 570 tons of CO ₂ emissions per year.
1996	The production systems for floor care and auto care products and for bulk customers in building H22 were rebuilt and automated; significant reductions were realized in energy, wastewater and waste.
1997	Environmental strain reduced with the new construction and automation of manufacturing and bottle-filling systems for innovative shoe care products in building L1.
1998	Quantum leap in environmental protection with the development of a water-based, solvent-free shoe care assortment.
1999	Company receives certification from TÜV-Rheinland in the year 2000. The functionality of all business processes supported by information and process automation technology were checked and ensured.
2000	Implementation of risk management system that also covers environmental protection.



2001	<p>In Mainz a Quality Management system for product supply was implemented and certified against ISO 9001:2000 criteria by TÜV-Rheinland.</p> <p>Participation in ÖKOPROFIT project initiated by the City of Mainz and the first of regularly received distinctions as a Mainz ÖKOPROFIT business.</p>
2002	<p>Introduction of environmental management system with the goals of obtaining ISO 14001 and EMAS certification for Werner & Mertz GmbH in Mainz.</p> <p>Set up of energy management system in Mainz.</p> <p>Buildings no longer required are demolished, resulting in a reduction of about 2% in annual heating energy consumption.</p>
2003	<p>Publication of first Environmental Statement by Werner & Mertz GmbH for the Mainz site.</p>
2004	<p>Introduction of environmental management system for the three Werner & Mertz Group companies at the Hallein site–Erdal GesmbH & CoKG, Erdal GmbH and Werner & Mertz Professional Vertriebs GmbH–and successful EMAS and ISO 14001 certification audits.</p>
2005	<p>Expansion of the Quality Management system for Product Development and certification against ISO 9001:2000 criteria by TÜV-Rheinland.</p> <p>Implementation of sustainability guidelines and participation in the A.I.S.E. Charter for Sustainable Cleaning, a voluntary initiative of the European soaps, detergents and maintenance products industry.</p>
2006	<p>The first Rainett and Froggy products are converted to Ecolabel formulas.</p> <p>At Tana-Chemie GmbH cleaning products for commercial use are developed which fulfill the requirements for Ecolabel certification.</p>
2007	<p>Top management orders the further development of the environmental management system into a sustainability system for the Werner & Mertz Group, including the Hallein site.</p> <p>The system is based on three pillars: economic, social and environmental.</p>
2008	<p>The Werner & Mertz Group issues the first Sustainability Report.</p>
2009	<p>Start of construction work for the new administration building, an exemplary ecological "zero energy" building.</p> <p>The Frosch brand receives the German Sustainability Award.</p> <p>Joined the Business and Biodiversity Initiative to emphasize the Werner & Mertz engagement in biological diversity.</p>



2010	The new administration building goes into operation. It is the first such building in Germany that generates all energy needs for heating and cooling with wind turbines, a photovoltaic system and a geothermal system.
2011	Construction and operation of the new Water Center with separate areas for the production of demineralized water and for wastewater pretreatment. Joined the B.A.U.M. e.V., the German Environmental Management Association.
2012	The new administration building receives the LEED Platinum certificate. Werner & Mertz kicks off the Frosch Initiative in which initiatives beyond the company's own industry are brought to life, e.g., the Recyclate Initiative for the upcycling of PET from the Yellow Bag and the initiative for surfactants based on European plants instead of palm kernel oil.
2013	ISO 50001 certification of the Energy Management System in Mainz and integration in the existing EMAS III and ISO 14001-certified Environmental Management System.
2014	Modernization and energy optimization of ventilation system in Building F14 (Product Development area). For the first time Werner & Mertz achieves certification in compliance with IFS HPC and IFS Broker standard.
2015	Installation of an online measurement device in wastewater pretreatment system to capture COD and TOC values in the rinsing and cleaning water from production areas. The new device saves about 1,200 test cuvettes per year. Transfer of production of shoe care products to Hallein and establishment of a shoe care competence center there.
2016	RSPO (Roundtable for Sustainable Palm Oil) certification
2017	Construction begins on the new production building L8 on the Mainz site
2018	15-year anniversary of EMAS on the Mainz site
2019	<ul style="list-style-type: none"> - New production building L8 on Mainz site becomes fully operational - CEO Schneider receives the German Environmental Award - Our packaging producer ALPLA starts up production in new building L8 <p>The 100% recyclable stand-up pouch developed with our cooperation partner Mondi is ready for its market launch.</p>



2020	Introduced sustainability reporting according to standards of the German Sustainability Code (DNK)
2021	Increased the proportion of recyclate from the household waste collection system (e.g., Yellow Bag) in PET packaging from 20% to 50%.

Measures for formulas and packaging:

We use 100% recycled PET material, 50% of which comes from post-consumer waste collection (Yellow Bag) in the manufacture of bottles to be filled with our cleaners.

We manufacture HDPE bottles made 100% of recyclate obtained from post-consumer waste collection (Yellow Bag).

100% recyclable pouch of a monomaterial

Use of C2C printing ink on all pouches

Use of wash-off labels for improved recyclability

Recyclate use in caps and closures

Use of European surfactants from domestically cultivated plants (e.g., rapeseed, olive, sunflower)

Use of easy-to-remove labels on a variety of consumer products in order to prevent waste (in the case of any label inaccuracies)



5. Milestones in the Recyclate Initiative

Chronology Recyclate Initiative

Prizes, Awards

Technological Development

2008-2012

2008: Recycled plastic used for the first time (rPET, Bottle to Bottle) in Frosch bottles. At the start 30%, then successive increases in the proportion of recyclates

2011: In January the first discussions with Unisensor on subject of sorting technology

2011: Since December all Frosch PET bottles have a recyclate share of more than 65%

2011: At REWE Forum the idea of a Recyclate Initiative was presented for the first time



Official start of Recyclate Initiative with rPET (as part of the Frosch Initiative), presented to the public for the first time at the German Sustainability Day in Düsseldorf on 7 December 2012, Partner: Nabu, Unisensor, Der Grüne Punkt, Alpla

2013

In December the recyclate share of all Frosch PET bottles is more than 80%

2014

REWE joins the Recyclate Initiative as retail partner

First test series in retail market for dishwashing detergent bottles made up 100% recyclates, 20% of which from the Yellow Bag

According to the USA Food & Drug Administration (FDA) these bottles are suitable for use with foodstuffs (Food Grade)

2015

Conversion of all transparent PET bottles to rPET, 20% of which comes from the Yellow Bag



2016

First bottle of 100% HDPE from the Yellow Bag for emsal floor care and green care Professional



Prizes, Awards (2013-2016)

- 2013:** ECR Award for Recyclate Initiative (September); German Packaging Special Prize and the award "Best Packaging 2014" in the WPR category (November); Frösch Citrus Shower and Bath cleaner awarded the Cradle-to-Cradle GOLD certificate; Federal Ecodesign Award for transparent bottles of 100% PCR, presented by the Federal Environment Ministry.
- 2014:** ZEIT WISSEN-Preis MUT ZUR NACHHALTIGKEIT; ZEIT WISSEN Award "Encouraging Sustainability" for Werner & Mertz (March in Hamburg) in the "Action" category; B.A.U.M. Environmental Award for RS (6 June in Berlin); German Packaging Award for Recyclate for flip-top caps made of 100% rPP; German Packaging Award in Gold for HDPE recyclates and German Packaging Award in the "Sustainability" category; Cradle to Cradle Products Innovator Award für Frösch and green care Professional (November in New York); German Sustainability Award in the category "Germany's most sustainable product" in Non-Food segment.
- 2015:** German Packaging Award for Recyclate for flip-top caps made of 100% HDPE recyclates; German Packaging Award in Gold for HDPE recyclates and German Packaging Award in the "Sustainability" category; German Sustainability Award in the category "Germany's most sustainable product" in Non-Food segment.
- 2016:** German Packaging Award for Recyclate for flip-top caps made of 100% HDPE recyclates; German Packaging Award in Gold for HDPE recyclates and German Packaging Award in the "Sustainability" category; German Sustainability Award in the category "Germany's most sustainable product" in Non-Food segment.



World Star Packaging Award together with Alpha for bottles made of 100% HDPE recyclates

WORLDSTAR WINNER 2018

GERMAN PACKAGING AWARD SUSTAINABILITY WINNER 2019

GERMAN PACKAGING AWARD NEW MATERIAL WINNER 2019

The patented stand-up pouch from Werner & Mertz and Mondri Star Packaging Award 2020

WORLDSTAR WINNER 2020

GERMAN DESIGN AWARD WINNER 2021

German Design Award 2021 for completely recyclable stand-up pouch

PLASTICS RECYCLING AWARDS EUROPE

Plastics Recycling Award Europe for bottles made of 100% HDPE recyclates

Material Health Certification (MHC) in GOLD from Cradle to Cradle Certified™ awarded to Siegwirk Druckfarben AG & Co. KGaA, Werner & Mertz, and Mondri for a recyclable printing ink system for flexography.

PackTheFuture

PackThe-Future Award for flip-top caps made of 100% rPP

DBU Deutsche Umweltpreis

Presentation of the German Environmental Award 2019 to Reinhard Schneider for his corporate sustainability strategy.

Material Health Certification (MHC) in GOLD from Cradle to Cradle Certified™ awarded to Siegwirk Druckfarben AG & Co. KGaA and Werner & Mertz for sustainable UV offset printing inks.

SIEGER Deutscher Nachhaltigkeitspreis Design 2021

Sustainability award for recyclable packaging of Frosch brand products

GERMAN PACKAGING AWARD NACHHALTIGKEIT GEMEINSAM 2021

German Packaging Award 2021 for rPET bottles with a proportion of 50% from the Yellow Bag.

2017

Development of sustainable and recyclable UV offset printing inks



Hinged caps of 100% rPP



2018

Completion of patented concept for stand-up pouch of 100% recyclable monomaterial



2019

Development of a toilet freshener in a basket made from recycled PET trays from the post-consumer waste collection system (Yellow Bag).



First bottle made with 100% HDPE from the Yellow Bag for use in the cosmetics field (for Frosch Senses shower gel)



Dedication of new Production Center L8 (largest recycle production in the world)



2020

Over the course of 2020, conversion of all Frosch brand stand-up pouches to the new design




Development of a recyclable printing ink system for flexography.



2021 - 2025

50%

2021: Increase in use of rPET material from Yellow Bag to 50%

Goals for 2025:

All packaging from Werner & Mertz made from 100% recyclable material AND from 100% recyclates



REDUCE 

REUSE 

RECYCLE

CERTIFIED

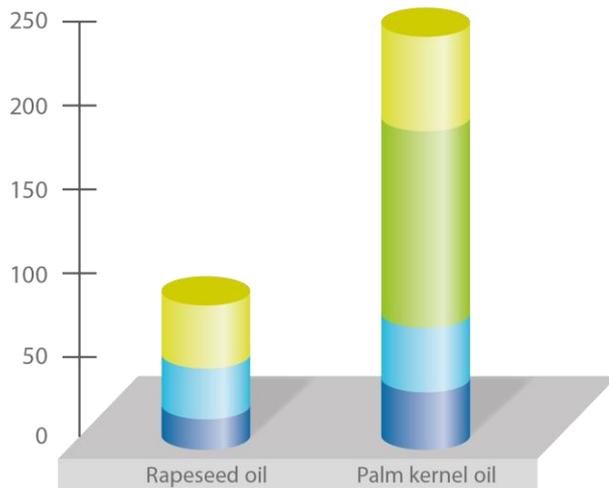
cradle to cradle

100% EFFECTIVE CIRCULARITY



Excerpt from expert opinion by Öko-Institut (Institute for Applied Technology) on the transportation of vegetable oils for the manufacture of surfactants in relation to carbon footprint

Carbon footprint (GWP – Global Warming Potential) in kg CO₂ equivalent / ton surfactants based on example of palm kernel oil (Indonesia/Malaysia) vs. rapeseed oil (Central Europe)



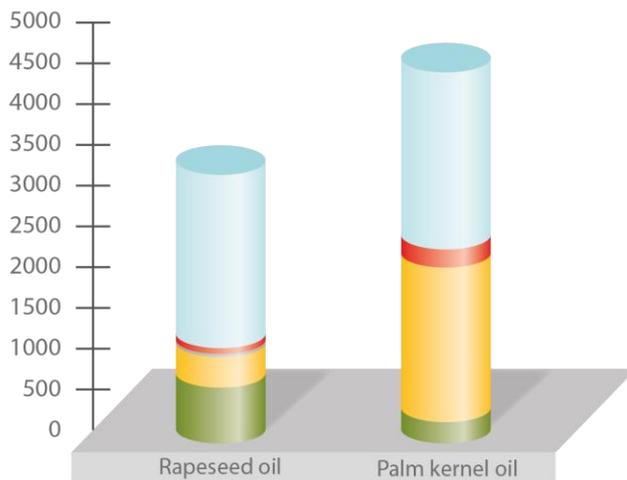
■ Oleaginous fruit > oil mill
 ■ Oil > surfactant production (truck)
 ■ Oil > surfactant production (ship)
 ■ Surfactant > Mainz

Source: Öko-Institut e.V. (Institute for Applied Technology), excerpt from expert opinion environmental assessment on the transportation of vegetable oils for the manufacture of surfactants, part 1/3, August 2020

- With the physical proximity of the cultivation site, surfactant production and the manufacture of Frosch products in Mainz, rapeseed oil-based surfactants from European cultivation reduce the carbon footprint by about 60% compared to palm kernel oil-based surfactants.
- The main reason for the improved footprint is the elimination of overseas transport from Indonesia or Malaysia to Europe.

Excerpt from expert opinion by Öko-Institut (Institute for Applied Technology) on the use of vegetable oils for the manufacture of surfactants in relation to carbon footprint

Carbon footprint (GWP – Global Warming Potential) in kg CO₂ equivalent / ton surfactants based on example of palm kernel oil (Indonesia/Malaysia) vs. rapeseed oil (Central Europe)



■ Cultivation
 ■ Changes in land use
 ■ Oil extraction
 ■ Transport
 ■ Manufacturing stage surfactants

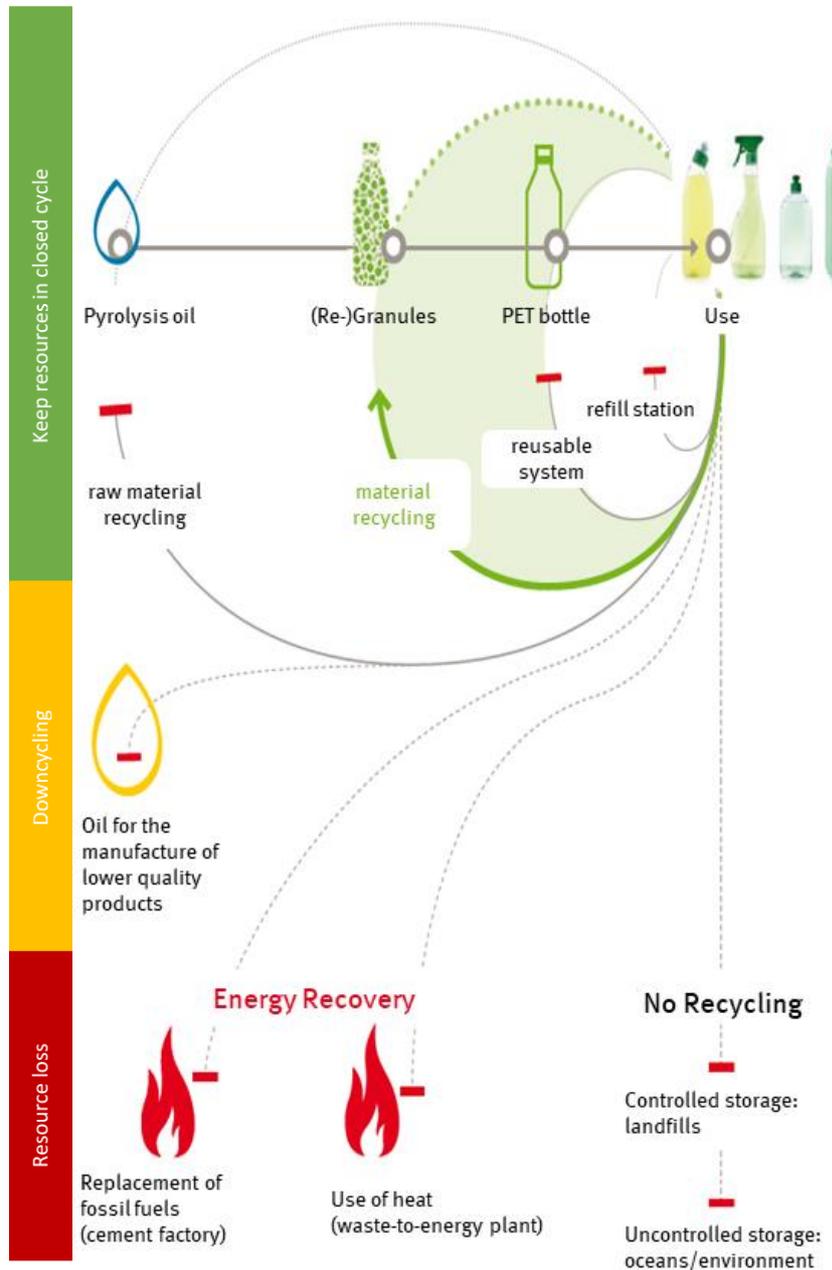
Source: Öko-Institut e.V. (Institute for Applied Technology), excerpt from expert opinion environmental assessment on the use of vegetable oils for the manufacture of surfactants, part 2/3, February 2021

- Palm kernel oil-based surfactants: about 30% larger carbon footprint
- 1,000 tons of rapeseed oil-based instead of palm kernel oil-based surfactants make it possible to conserve approximately 1,200 tons of CO₂ equivalent (= annual emissions of about 110 German residents)

Excerpt from three-part Öko-Institut expert opinion, to be supplemented by a third study now being made



The three recycling routes for plastic packaging



Material

The objective and benefit of material recycling is the conservation of primary material. The different steps of recycling require electricity, heat and chemical additives. However, total expenditures and the resulting CO₂ emissions are significantly lower than for primary production. **From an environmental perspective, material recycling of plastic is highly recommended and is clearly superior to energy recovery and raw material recycling.** Werner & Mertz has succeeded in closing the material cycle that until now had not been available for recycling.*

Raw Material

Solvolytic and thermal processes break down plastics. Depending on the plastic used, the processes yield the basic materials of oil and gas. When pure input materials are processed, plastic can be produced from them, **but the expenditure is much higher than for material recycling.** The extracted components, therefore, are primarily gasified to be used as fuel.

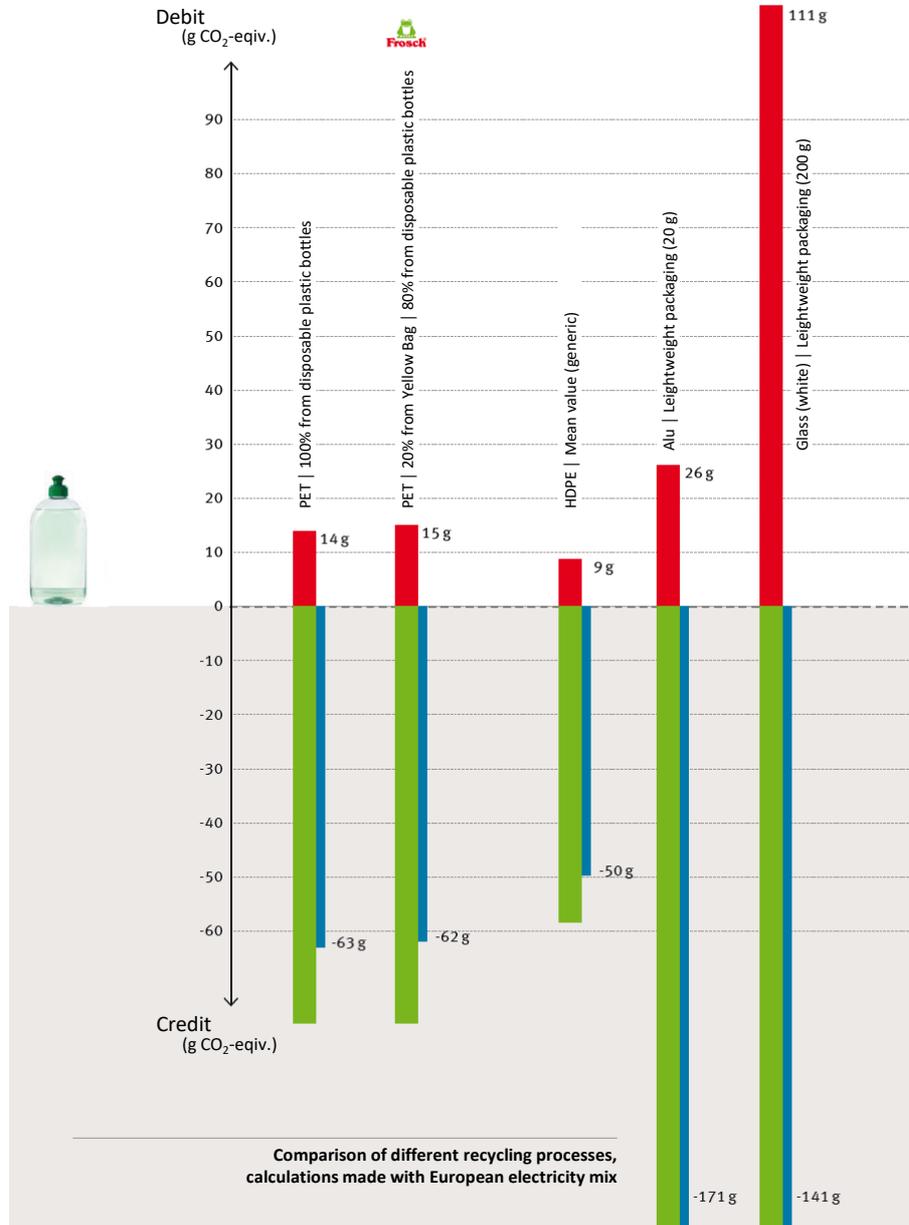
Energy

Electricity and heat are generated by energy recycling processes. The attainable carbon credits are as high as the emissions generated by combustion – **so no carbon credits are obtained. In the future, the process will lead to carbon debits, a development which counteracts the goal of providing carbon-free energy.**



Specifically:

Example: dishwashing detergent bottle



To make the figures and results more comprehensible, the study examined what expenditure is required for the production of a 0.5-liter bottle – shown according to expenditure for primary material and for recycled material.

"From an environmental perspective, material recycling of plastic is highly recommended and is clearly superior to energy recovery and raw material recycling."

Öko-Institut study

"At Werner & Mertz we pursue a genuine circularity principle with the goal of consuming no crude oil for the production of plastic packaging. Instead, we put material from Yellow Bag through high-quality processing so that it can serve as the basis food-quality packaging."

*Rheinhard Schneider,
the pioneer behind the
Recyclate Initiative*



6. Corporate Policy and Guidelines

The Werner & Mertz Group policy and guidelines include environmental, energy and quality policies which serve as the foundation for our work in environmental protection. Applicable to all business areas, they also contain environmental and energy-related principles of conduct. Concrete goals set for companies in the Werner & Mertz Group are aimed at continuously improving and advancing environmental protection and energy efficiency.

The Environmental Program lays out the specific steps needed to achieve the goals at the Mainz site. The steps create the conditions required for integrating environmental protection in day-to-day work at all levels of the company.

7. Structure and Organization of Environmental Management System

Establishing and maintaining an Environmental Management System make up the major component of the EMAS (Environmental Management Audit Scheme) regulation and of ISO 14001. The objectives of the Environmental Management System are to integrate environmental protection in all processes and to make continuous improvements to the environmental performance of the Werner & Mertz Group.

In pursuit of our goals, we incorporate sustainability as a guiding principle in all our processes. We also derive annual measurable environmental and energy goals and at regular intervals we monitor the extent to which we have achieved those goals.

The effectiveness of the Environmental Management system is checked every year in internal and external audits.



The following graphic shows the responsibilities and interactions of the Environmental Management system at the Mainz site:

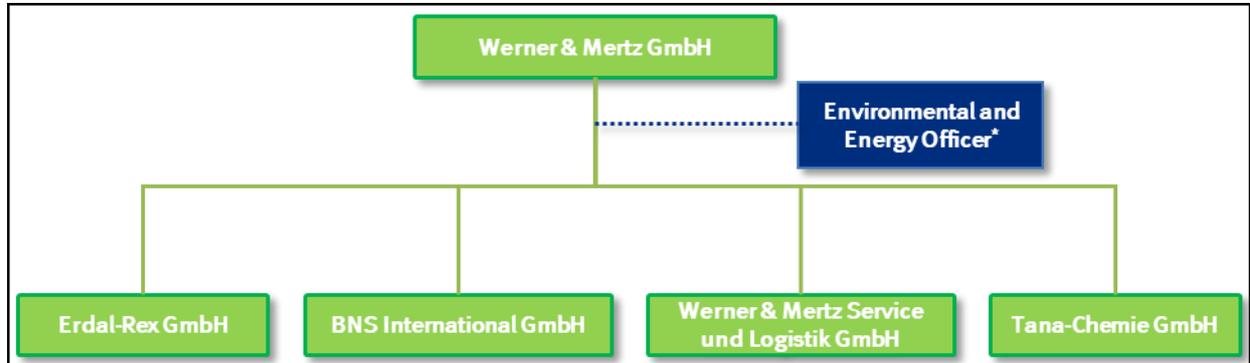


Figure 1 Interactions in Environmental Management system at Mainz site

*The Environmental and Energy Officer is appointed in all companies shown here.



8. Major Changes since Environmental Statement 2021

- Line 950 in Production building L1 put into operation
- Expansion of manufacturing to supply the new filling line L1
- Refurbishment of building A8
- Demolition of building complexes B and E
- Trainee project on biodiversity conducted in cooperation with NABU
- Initiated concept project for energy-efficient manufacturing building H26
- Sale and leaseback of property to Frankenbach Container Terminals GmbH
- Moved a pouch line to France
- Increased the recycle share (in PET packaging) from household waste collection from 20% to 50%
- Continuous conversion to transparent caps and closures
- Conversion of the entire fleet of forklifts to lithium ion technology
- Direct delivery in France and Spain to eliminate transport and avoid emissions
- Replacement of air compressors F6
- Personnel change in Production Management



9. Input and Output Assessment

The most important input and output data from the past four years are presented separately in the following tables.

Input					
2018	2019	2020	2021	Unit	Indicator
Water					
364,301	372,025	413,208	383,587	m ³	Total consumption comprises:
317,169	335,578	385,980	346,890	m ³	Well water from two wells
47,132	36,447	27,228	36,697	m ³	Municipal water
Energy					
15,877,186	17,701,840	17,532,912	17,768,022	kWh	Total consumption comprises:
7,458,866	8,503,560	8,747,991	8,639,859	kWh	Electricity
2,469,035	2,405,926	1,989,578	1,867,540	kWh	Natural gas
5,949,285	6,792,354	6,795,343	7,260,623	kWh	District heating
6,800,974	6,035,201	6,113,745	5,315,310	m ³	Compressed air



Property Area					
94,024	94,024	94,024	94,024	m ²	Total area comprises:
84,915	86,315	86,315	86,315	m ²	sealed area
9,109	7,709	7,709	7,709	m ²	unsealed area
Raw Materials					
30,577	33,237	34,437	31,797	t	Total of all raw materials
15,154	17,003	18,328	16,593	t	Surfactants, fatty acids, soaps
8,683	10,321	10,003	9,720	t	Acids, salts, alkalis, etc.
2,942	3,037	3,358	2,942	t	Alcohols
992	975	865	748	t	Polymer dispersions / Polymers
1,308	1,533	1,488	1,424	t	Solids and fillers
4	2	2	1,5	t	Fats
22	10	9	8	t	Waxes
339	356	385	359	t	Fragrances



Packaging					
291,409,304	296,776,248	357,905,139	342,577,347	piece	Packaging (bottle, pouch, canister, includ- ing caps)
17,900,445	18,272,965	21,746,378	20,587,561	piece	Cartons
284,539,892	285,646,101	353,801,725	351,608,490	piece	Labels
Paper					
about 1,200,000	about 1,200,000	about 1,200,000	about 1,250,000	sheet	Paper for copiers and printers



Output					
2018	2019	2020	2021	Unit	Indicator
Products					
132,252	139,431	150,702	146,568	t	Cleaning and care products
139,226,265	146,886,371	167,355,223	161,621,447	piece	Cleaning and care products
CO ₂					
(496,276)	(483,591)	(399,905)	(375,376)	kg	Total emissions (CO ₂)
0	0	0	0	kg	Electricity (eco-energy)
(496,276)	(483,591)	(399,905)	(375,376)	kg	Natural gas (CO ₂ offsetting, starting in 2014)
0	0	0	0	kg	CO ₂ emissions from district heating
Emissions					
2,049	0	9,405	12,895	kg	Total emissions (CO ₂ equivalent)
16	16	13	12	kg	SO ₂
354	345	285	268	kg	NOx
0	0	0	0	kg	VOC emissions
2,049	0	9,405	12,895	kg	CO ₂ emissions from refrigerant losses
0	0	0	0	kg	Particulate matter



Cooling Water / Wastewater / Other					
355,536	372,025	413,208	383,587	m ³	Total of all process water
190,744	208,528	245,835	203,909	m ³	Direct discharge (Rhine)
51,697	55,570	50,917	66,982	m ³	Indirect discharge (municipal treatment plant)
13,999	4,175	3,182	1,322	m ³	Evaporation into the atmosphere
99,096	103,752	113,274	111,374	m ³	Water in products
Waste					
2,445	2,694	2,611	2,761	t	Total Waste
Non-hazardous waste – household-like waste – (residual waste, recyclables, ...)					
94	127	130	120	t	Mixed packaging (residual waste)
449	547	448	437	t	Cardboard and paper
107	129	195	215	t	Backing paper* (for labels)
55	68	73	96	t	Wood waste**
20	41	41	39	t	Plastic sheets
19	18	18	13	t	Construction waste
8	3	19	12	t	Green waste



1,057	1,161	1,279	1,412	t	Filter cakes
44	63	100	75	t	Aqueous washing liquids and mother liquors (marble powder)
Hazardous Waste					
451	330	100	141	t	Other organic solvents, aqueous washing liquids and mother liquors***
1	8	1	2	t	Other organic solvents, aqueous washing liquids and mother liquors (products)
50	103	193	79	t	Surfactants, reaction and distillation residue****
3	2	10	1	t	Pickling solution, alkaline
2	7	3	1	t	Acids, inorganic
85	87	1	118	t	Surfactants****

Comments:

*Backing paper (for labels): Since 2020 other purchasers have come along, picked up large quantities of backing paper and delivered it for recycling.

** Wood waste: Since the construction of L8 in 2019, a great deal of demolition and dismantling work has been done, especially on the old part of the factory grounds. Therefore, the wood waste fraction has increased continuously.

*** Rinse water (collected after product change-over): With the goal of reducing the finished goods inventory, more smaller batch sizes are produced. That requires more frequent material changes and therefore more rinsing cycles, which led to an increased amount of rinse water. As a result, there was an increase in filter cakes from the chemical-physical wastewater treatment system.

****Given the re-classification of waste codes, we saw a significant shift in the waste fractions surfactants and reaction and distillation residue and surfactants.

Basis for calculation of emissions:

1 kWh electricity: 2018, 2019, 2020, 2021 = 0.0 kg CO₂ (Source: electric power supplier)

1 m³ natural gas = 2.01 kg CO₂ (Source: Gemis 4.7)



10. Environmental Performance Figures for 2021

The following environmental performance figures and the environmental and energy indicators derived from the input-output assessment serve as a critical instrument for steering and monitoring the effectiveness of the Environmental and Energy Management System.

The core indicators make possible:

- an environmental accounting of the actual state of the system
- environment-oriented and energy-efficient planning and steering
- regular checks of improvement in environmental performance

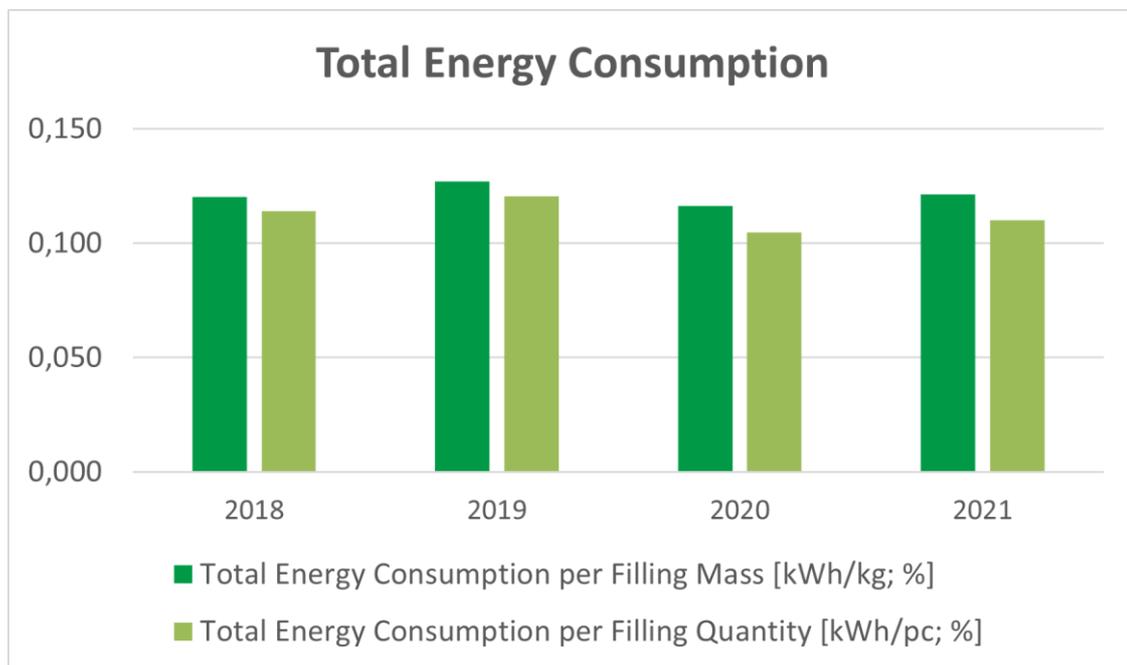
The relation to the produced tonnage and number of pieces of finished product also is shown.



Energie

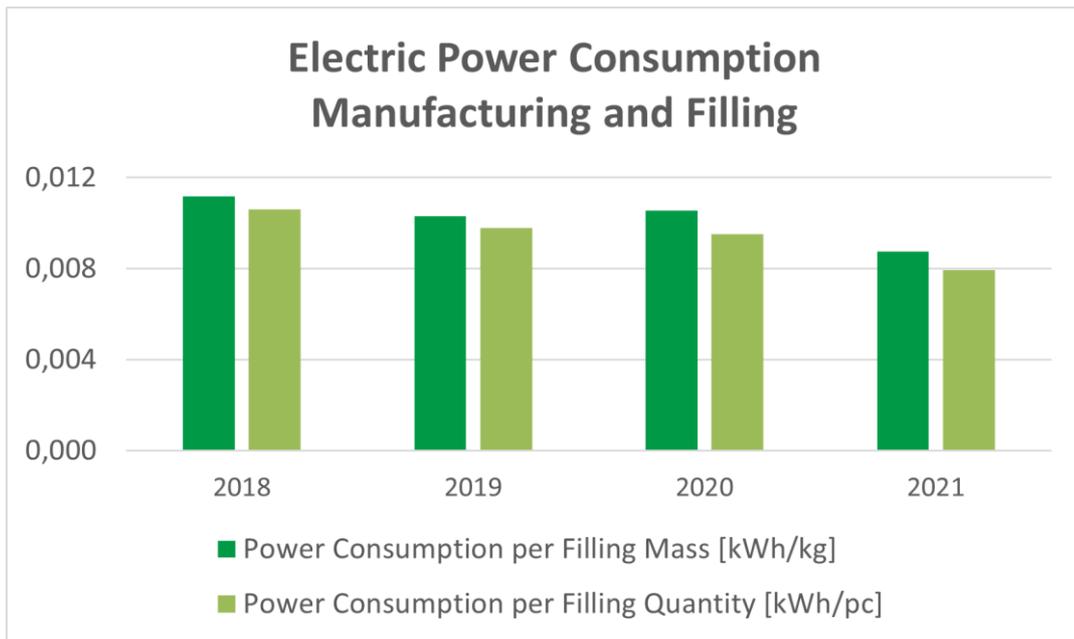
For purposes of monitoring and optimizing energy use, in 2013 we installed an energy Management system in compliance with ISO 50001 with corresponding energy data capture. With the system we record details about use of electricity, gas, district heating and compressed air, identify key usage areas and potential savings and develop action plans for energy management which supplement measures in the Environmental Program. In addition to purchased eco-electricity, Werner & Mertz GmbH generates power from renewable energies, mainly by using photovoltaic equipment. In 2021 the generated power amounted to 84,984 kWh.

The total energy use varied in part according to the produced number of pieces. Compared to the previous year, in 2021 about 3% fewer products, relative to the number of pieces, were filled. Therefore, the indicator Total Energy Consumption per filled volume increased at a nearly constant base load.



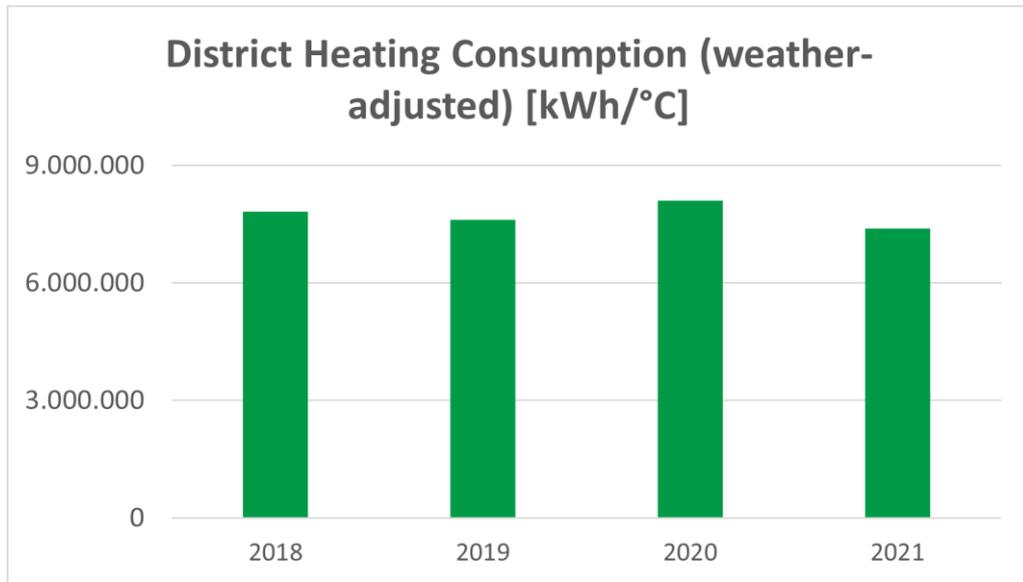


The filling volume and mass decreased by 3% whereas energy consumption in the related areas of manufacturing and filling sank 19.3% compared to previous year. That is due to the fact that manufacturing and filling do not correlate directly with filling volume. The exact cause for that is now being examined.

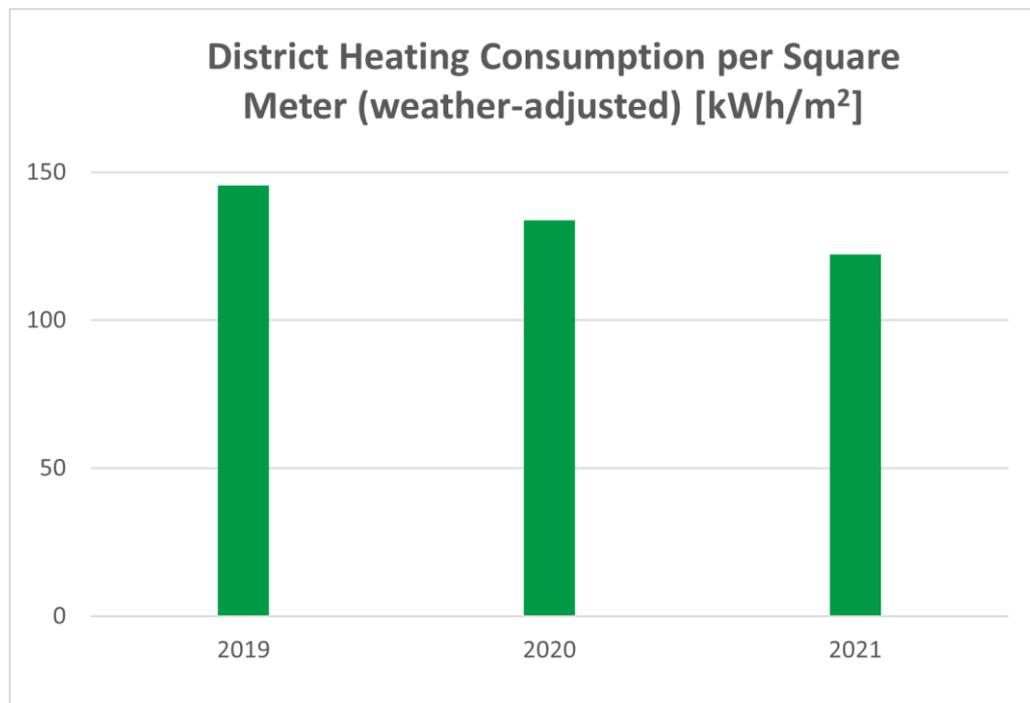


In addition to our standard ways of using electricity more effectively, we have procured electronically regulated motors and speed-regulated pumps and have optimized the lighting. There were no CO₂ emissions from the Mainz site in 2021 as the result of the continuous conversion of building heating to district heating and the use of eco-electricity and climate-neutral natural gas (used 100% since 2014).

As a result of changes in accounting, district heating consumption, adjusted for weather conditions, decreased by 718,211 kWh (or 8.9%) in 2021 in comparison to prior year. This is attributed to factory structure planning, demolition of parts of A8 and E buildings, and changes in usage in the remaining A buildings. Moreover, a reduction of 101,306 kWh (8.3%) in comparison to previous year was realized in the heating energy consumption in buildings L2 and L3 for reasons related to altered heating parameters.



Additional energy efficiency measures such as the reduction of production hall temperatures in the logistics center, led to a decrease in the core indicator "district heating consumption per square meter" in 2021 in comparison to the previous year.



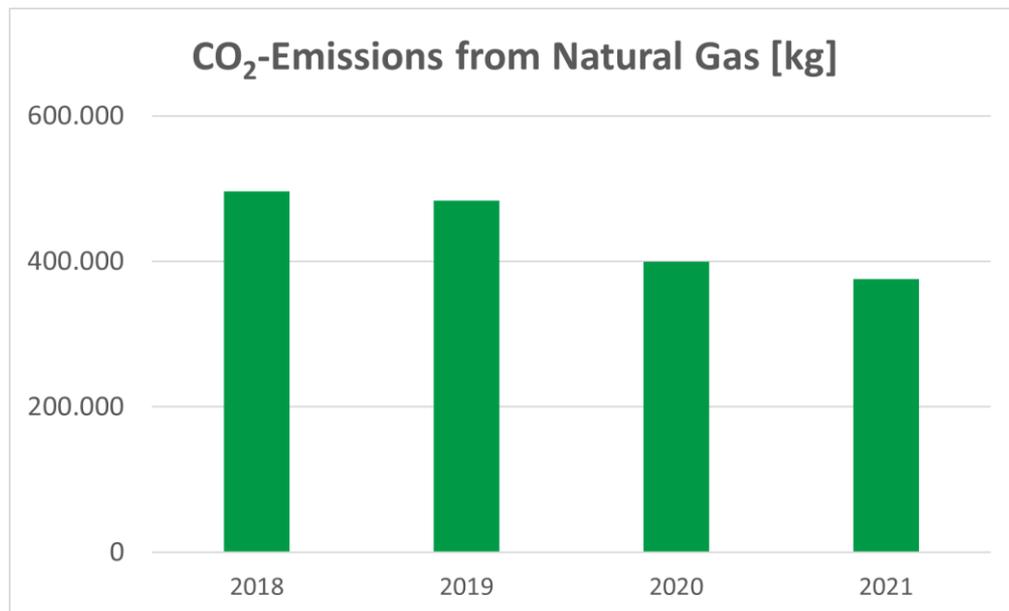


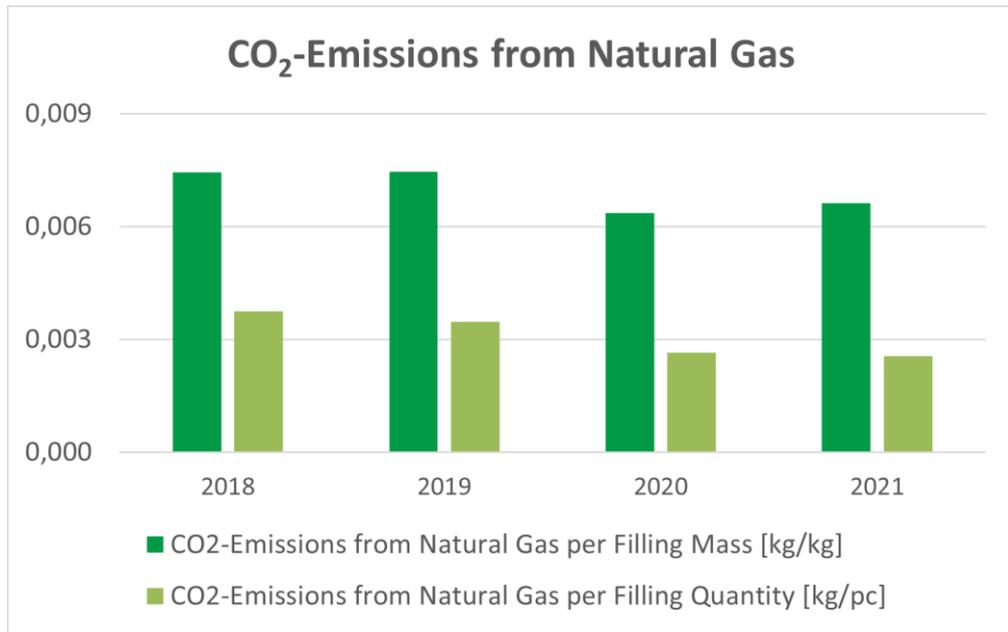
Emissions

For the most part, material production for our products takes place in closed processes using storage tanks, pipelines and manufacturing containers. Therefore, emissions of Volatile Organic Components (VOC) arise to a limited extent through evaporation or vaporization processes.

There are no VOC facilities subject to the VOC ordinance on the premises. The site is subject to limits on organic substances in the exhaust gas (as specified in Technical Instructions on Air Quality Control known as *TA Luft*). These limits are not exceeded.

The current emissions declaration was generated in May 2021 for the year 2020 via the official online portal BUBE (*Betriebliche Umweltdatenberichterstattung*).



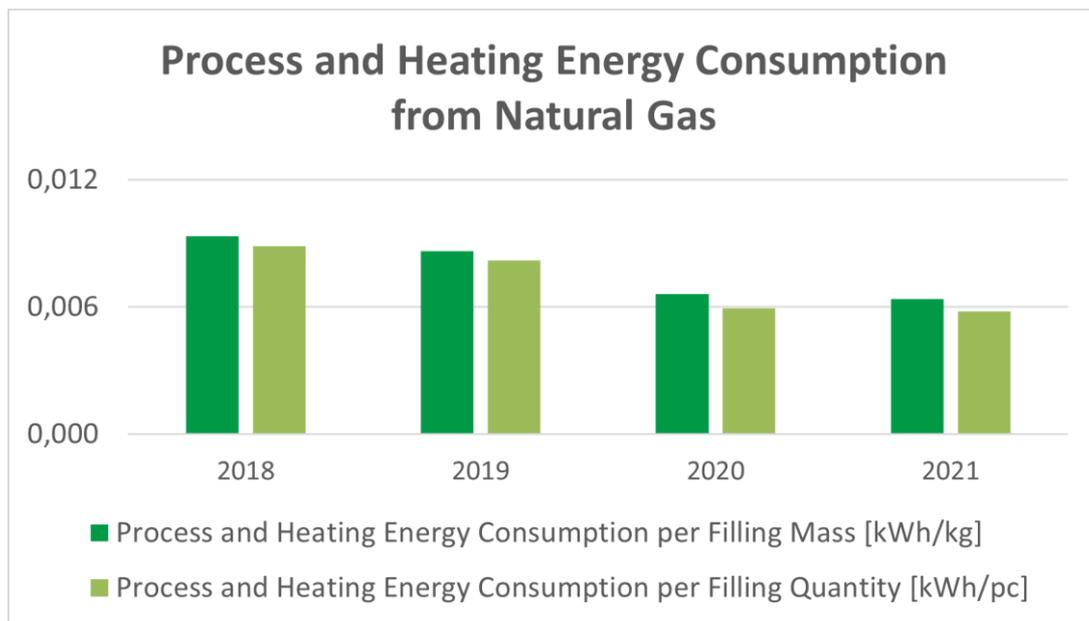




Thermal Process and Heating Energy from Natural Gas (Steam)

In the past the Werner & Mertz site in Mainz used steam generated by natural gas in its own boiler building as process energy to heat raw materials and input materials.

In several steps, the heating system for production buildings, warehouses and heat chambers was converted to district heating. Since the end of 2010, efficient high-speed steam generators have been used to produce process steam. The annual natural gas consumption results only from product-related heating of manufacturing tanks and heating older parts of the buildings. In 2021 some parts of the buildings were demolished, which is why the energy consumption declined by 6.1%. Production quantity decreased from 2020 to 2021 by 2.7% in tonnage and 3.4% in the number of pieces.

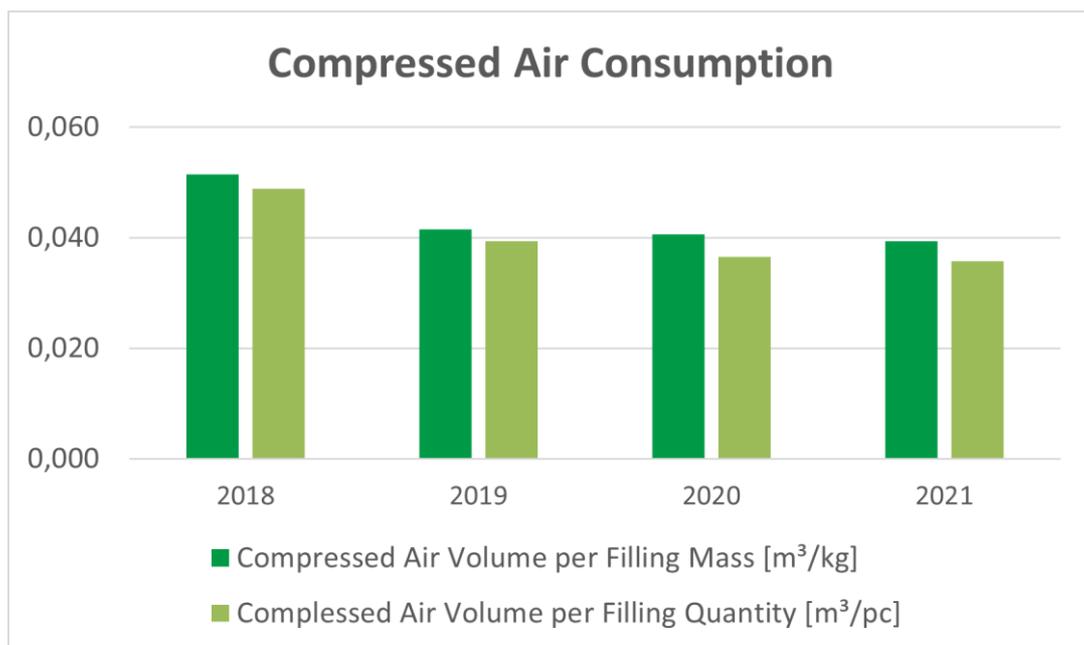




Compressed Air

Compressed air is used primarily in production processes. Some consumption resulted from the utilization of filling facilities for stand-up pouches. The facilities, which are suitable for combustible products, were equipped with explosion-preventing pneumatic controls. With the construction of L8, some lines were moved to the new building and are now fed by the supply network there. At this time the related measurement concept is being developed, so the shift between the years 2018 and 2019 could not be documented by a measurement.

In December 2021 the existing compressor station was replaced with a new one. With pouch production reduced by 2.74% in 2021, the indicator per filling mass declined at almost the same level of compressed air consumption.

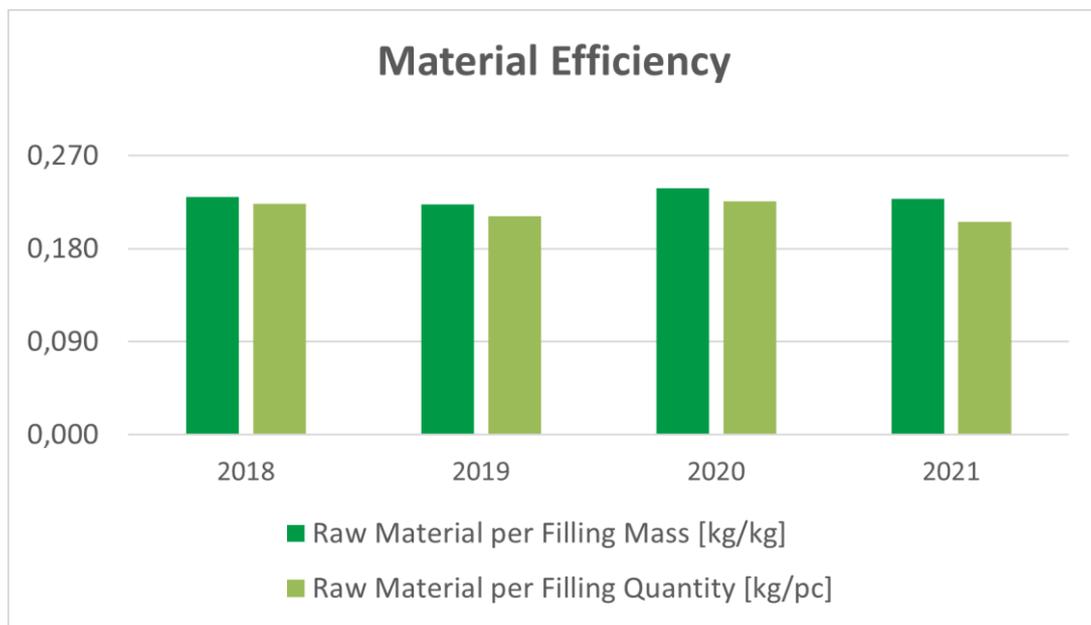




Material Efficiency

The input quantities of raw materials and changes in individual materials depend directly on the produced assortment (article mix). Surfactants, acids, salts and alcohol make up the largest quantities processed.

Overall, the input quantities in 2021 compared to previous year declined slightly in relation to the filling quantity. That reflects the change in product range with the trend toward small-volume articles.

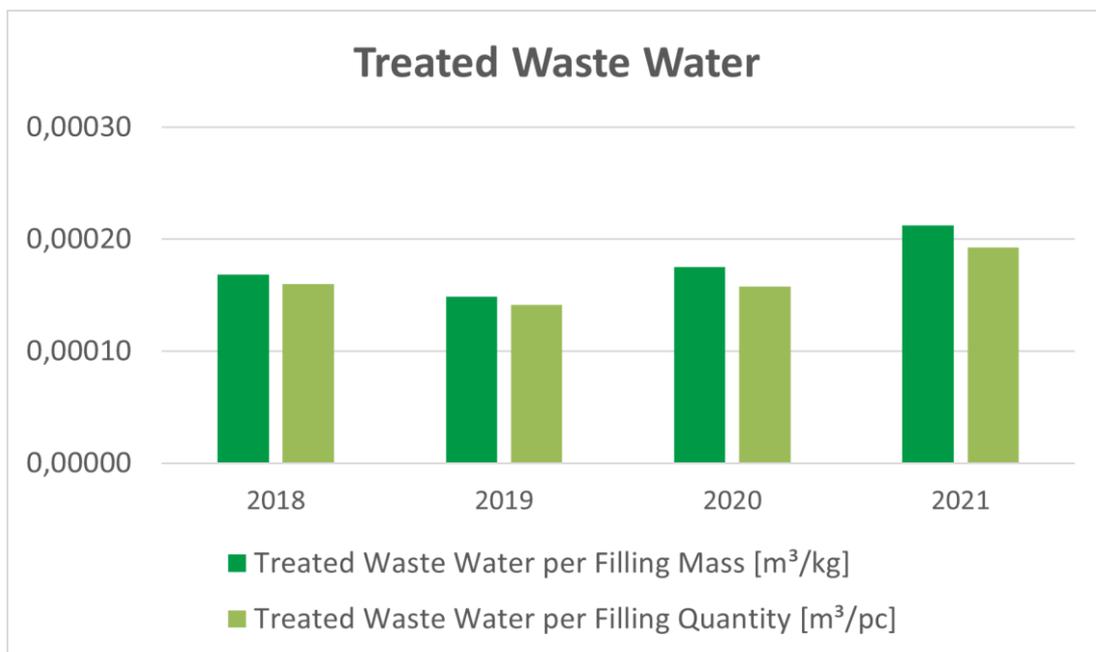




Water / Wastewater

Werner & Mertz - Mainz draws untreated water mainly from its own two wells. The major share of water consumption covers processes in production. As needed, a smaller portion of water required for production processes can be drawn from the Mainz municipal drinking water system. All the water used for sanitary purposes also is taken from the city's water supply.

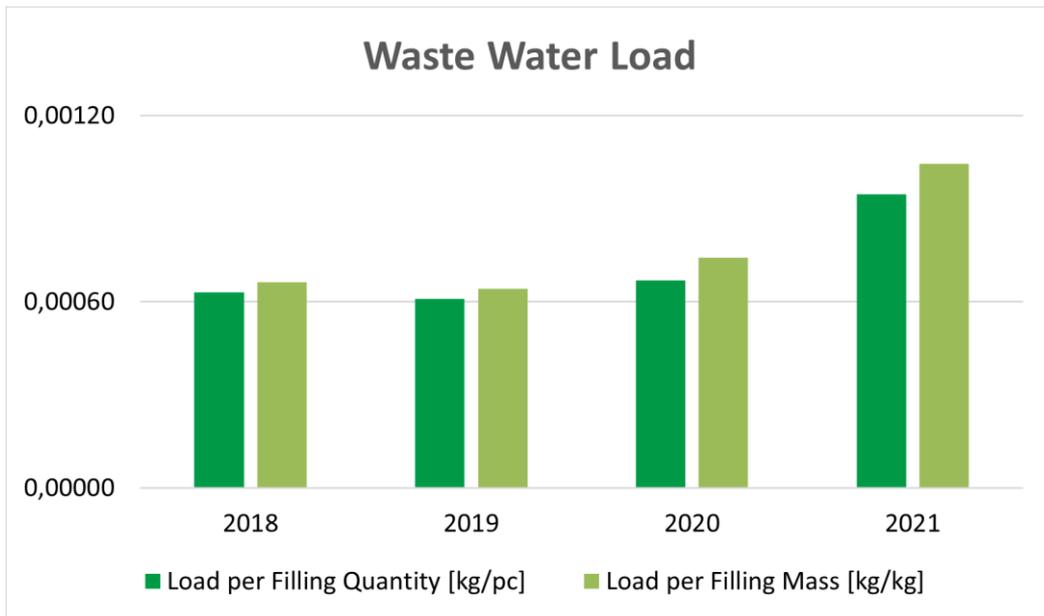
Some of the water drawn from the on-site wells is used by the geothermal energy system to heat and cool the administration building. Afterwards most of that water is treated by means of gravel filters and reverse osmosis systems for further use in the manufacture of our products and thus is used many times over.



Another portion of the well water is used for process cooling in Production. The cooling water is neither chemically nor physically treated. Last year some changes made to production processes and formula conversions for laundry detergent resulted in a reduced need for cooling water.



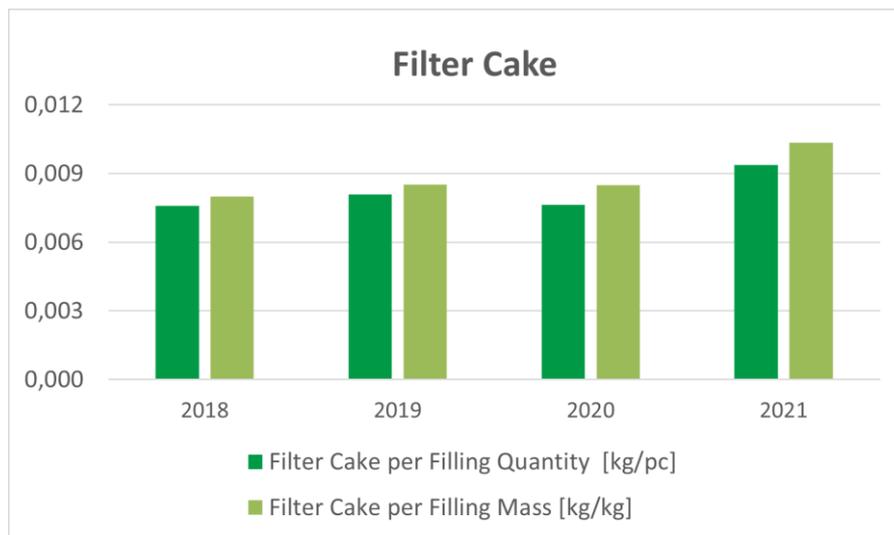
In our efforts to reduce finished goods inventory, we increased production of small lots. Because this type of production requires more frequent material change-overs and rinsing cycles, the amount of treated water and water pollution (wastewater load) increased. The Mainz site complied with all regulatory discharge limits for both direct and indirect discharge.



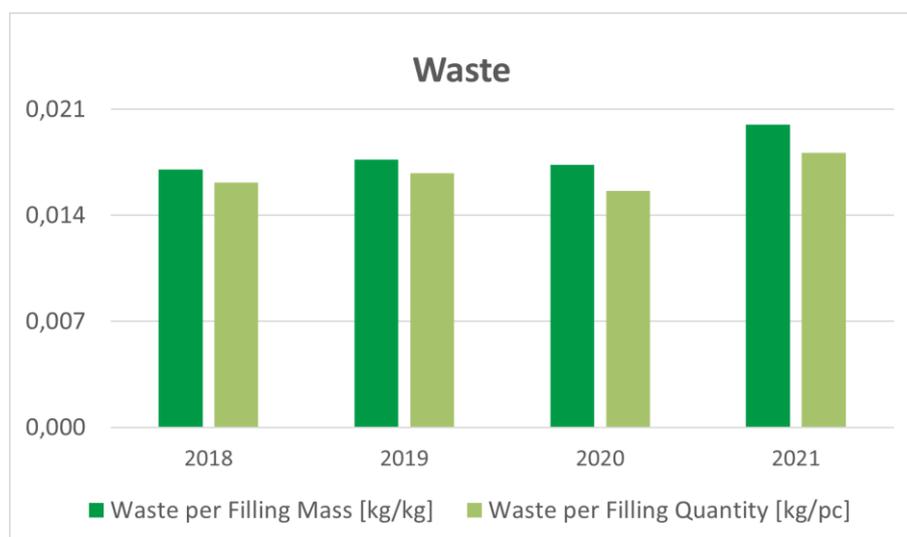


Waste

The largest portion of waste consists of filter cakes from the physicochemical processes in our water treatment plant. The cakes are drained in a powerful chamber filter press. In keeping with our commitment to a circular economy, for the past several years we have recycled the compressed sludge (material goes into the production of Poroton bricks).



The indicator rose as a result of increased total waste caused by more rinsing cycles in Production (in efforts to reduce warehouse inventory), the inclusion of non-product-related waste fractions of wood waste generated by demolition work in 2021, and the lower filling volume compared to previous year.

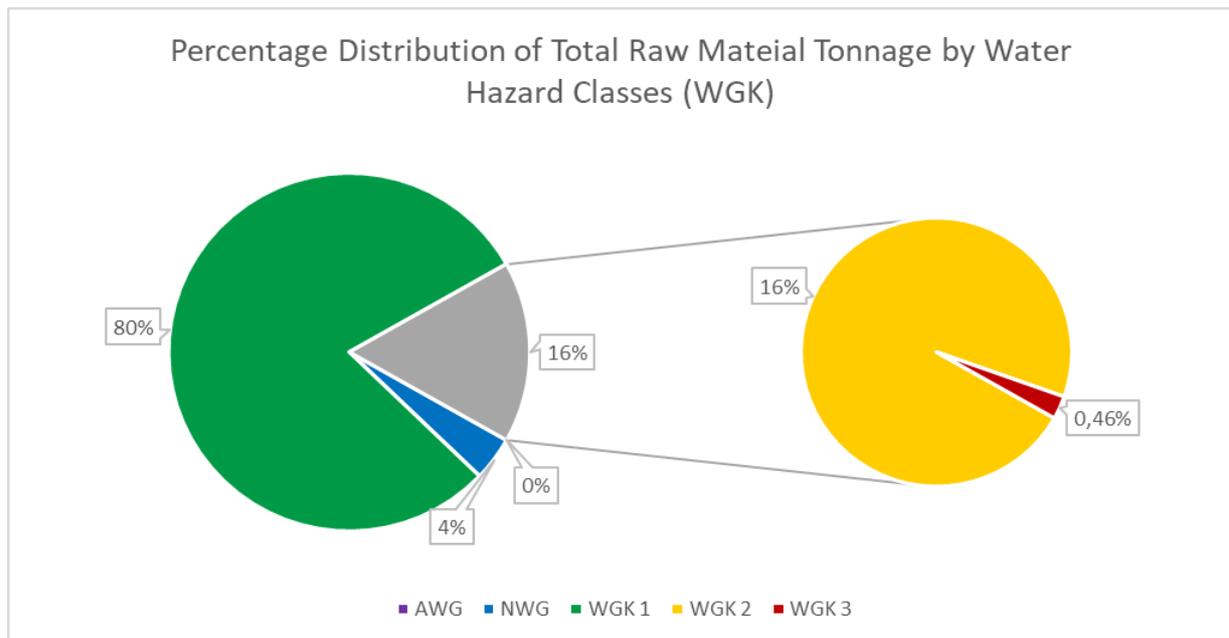




Hazardous Materials

For the most part, the raw materials used at the Mainz site pose a low hazard to water (Water Hazard Class 1).

We attribute this to the optimized, legally compliant design of our warehouse, preventive measures in occupational safety, general safety, fire and water protection, and related instruction given to our employees.



Noise

No noise emitted from the Werner & Mertz site in Mainz exceeds statutory limits.

Contaminated Sites

There are no environmentally relevant indicators of contaminated sites or areas of suspected contamination at the Mainz location.



11. Core Indicators

Core indicators that show our fulfillment of requirements from the Directive (EC) Nr. 1221/2009 (EMAS III) are listed in the following table.

These indicators were first established for the year 2009 and updated for each year thereafter.

Core Indicators	2018	2019	2020	2021	Comments
FIGURE B₁	132,252 t	139,431 t	150,702 t	146,568 t	(* = 1000 PIECES)
FIGURE B₂	139,226.265 *	146,886.371 *	167,355.223*	161,253.305*	
i) Energy Efficiency					
Total direct energy consumption::	15,877 MWh 0.1201 MWh/t 0.114 MWh/*	17,702 MWh 0.1270 MWh/t 0.120 MWh/*	17,532 MWh 0.1163 MWh/t 0.105 MWh/*	17,768 MWh 0.1212 MWh/t 0.109 MWh/*	Direct energy consumption includes use of electricity, natural gas and district heating.
Total use of renewable energy:	7,459 MWh 0.056 MWh/t 0.053 MWh/*	8,504 MWh 0.061 MWh/t 0.057 MWh/*	8,748 MWh 0.058 MWh/t 0.052 MWh/*	8,639 MWh 0.059 MWh/t 0.053 MWh/*	Since 2014, share of renewable energy in electricity generation is 100% (renewable generation from hydro power).
ii) Material Efficiency					
Total of all raw materials, additives and operating supplies:	31,227 t 0.236 t/t 0.224 t/*	33,878 t 0.2430 t/t 0.230 t/*	35,185 t 0.2335 t/t 0.210 t/*	32,499 t 0.2217 t/t 0.202 t/*	See Input-Output Assessment for details.
iii) Water					
Total annual water use:	364,301 m³ 2.755 m ³ /t 2.62 m ³ /*	372,025 m³ 2.668 m ³ /t 2.53 m ³ /*	417,775 m³ 2.772 m ³ /t 2.50 m ³ /*	383,385 m³ 2.616 m ³ /t 2.37 m ³ /*	See Input-Output Assessment for details on water use.
iv) Waste					
Total annual waste generation:	2,587 t 0.0196 t/t 0.0186 t/*	2,694 t 0.0193 t/t 0.0183 t/*	2,611 t 0.0173 t/t 0.0156 t/*	2,761 t 0.0188 t/t 0.0171 t/*	See Input-Output Assessment for details on types of waste.
Total annual hazardous waste generation:	592 t 0.0045 t/t 0.0042 t/t	537 t 0.0038 t/t 0.0037 t/*	308 t 0.0020 t/t 0.0018 t/*	342 t 0.0023 t/t 0.0021 t/*	See Input-Output Assessment for details.
v) Biological Diversity					
Use of land in m ² of sealed area:	84,915 m² 0.642 m ² /t 0.609 m ² /t	86,315 m² 0.619 m ² /t 0.5873 m ² /t	86,315 m² 0.573 m ² /t 0.5158 m ² /t	86,315 m² 0.573 m ² /t 0.5158 m ² /t	Proportion of sealed area on entire property site = 92%



vi) Emissions

Total annual emission of greenhouse gases in tons of CO ₂ equivalent	496 t 0.0037 t/t 0.004 t/*	484 t 0.0035 t/t 0.003 t/*	400 t 0.0026 t/t 0.002 t/*	375 t 0.0026 t/t 0.002 t/*	At the site CO ₂ was emitted only from the generation of heating and process energy through the burning of natural gas in the company's own boiler building. From 2014, CO ₂ emissions from natural gas are off-set.
Total annual emissions through loss of refrigerants	2.049 t 15 g/t 1.47 g/*	0 t 0 g/t 0 g/*	9.405 t 62 g/t 56.1 g/*	12.859 t 88 g/t 79.6 g/*	The existing air conditioning systems are subject to regular maintenance. Refrigerants (5.78 kg of refrigerant R410A) and 0.45 kg of refrigerant R22 had to be refilled during maintenance of air conditioning systems in 2021.
Total annual emissions SO ₂	16 kg 0.12 g/t 0.15 g/*	16 kg 0.14 g/t 0.13 g/*	13 kg 0.87 g/t 0.079 g/*	12 kg 0.84 g/t 0.077 g/*	Emissions of SO ₂ and NO _x from the burning of natural gas to generate heat (heating system and process steam). Data basis: Gemis 4.7
Total annual emissions NO _x	354 kg 0.0033 kg/t 0.0032 kg/*	345 kg 0.0030 kg/t 0.0028 kg/*	285 kg 0.0020 kg/t 0.0017 kg/*	268 kg 0.0020 kg/t 0.0017 kg/*	See above
Total annual emissions PM	0 kg 0 kg/t 0 kg/*	No Particulate Matter (PM) emissions			

Legend:

FIGURE A: Total annual input/impact in specified environmental area

FIGURE B: Overall annual output of the organization (in tons (B₁); 1000 pieces (B₂))

FIGURE R: Ratio of A/B (to tons (R₁); to 1000 pieces (R₂))



12. Assessment of Direct and Indirect Environmental Impact

To monitor and manage all meaningful environmental parameters, all the companies at the Mainz site identify, analyze and assess the direct and indirect environmental impact of their activities.

The assessment provides information about the importance of environmental impact on the site and serves as the basis for defining environmental goals.

So that we can better adjust to the always changing conditions, we regularly update the assessment of the environmental impact and rigorously follow up with possible measures.

Finished Goods Logistics

In keeping with our integral approach, we select our service providers on the basis of their sustainability philosophy. For our major partners, sustainability is a core element in corporate decision-making. Consequently, since 2008 CO₂ emissions per ton-km have been reduced significantly (2008 vs. 2018 = -40.2%) through the use of modern vehicles and rigorous fleet management. In the same 10-year period the share of low-emission vehicles (Euro Class 5/Enhanced Environmentally-Friendly Vehicle = 28% and Euro Class 6 = 66%) increased from 21% to more than 94%. The updated version of the study for 2021 will be available by the end of 2022 and will be taken into account in the next Environmental Statement.

Vehicular Fleet

Vehicles in the fleet for sales companies' field representatives are replaced after 150,000 km per vehicle with vehicles equipped with the latest technology. We use vehicles with particularly environmentally friendly technologies which have lower CO₂ emissions than conventional models. Furthermore, fuel consumption of our vehicles is regularly monitored to allow for quick reaction to unusual changes in consumption patterns. In 2020 an external consulting company conducted a study on the topic "Sustainable Fleet".



Information given to Employees and Customers

Our employee newspaper regularly publishes articles on environmental protection. As part of our training program we also inform employees of sustainability topics such as environmental protection and energy-saving measures.

As far as customer information is concerned, it is in our own best interests to publicize the customer benefit from using environmentally friendly products. We tell them about our company's activities, such as the Recyclate Initiative.

Recyclable Products

In 2012 Werner & Mertz launched the Recyclate Initiative whose goal is to put and keep plastic packaging in a closed cycle and to use plastic from household waste collection systems like the Yellow Bag as material for our packaging.

Currently the company is doing without PET bottles of 100 percent new, petroleum-based plastic for its Frosch brand and is instead making PET packaging from used plastic, as of this year with a share of 50 percent rPET (recycled polyethylene terephthalate) from household waste collections, e.g., the Yellow Bag. For the Consumer and Professional Divisions, we succeeded in making bottles of 100 percent rHDPE. In 2019 shower gel bottles for the Frosch brand were converted to 100 percent rHDPE—a world-first in the cosmetic segment.

Werner & Mertz reached yet another milestone within the Recyclate Initiative in pursuit of a circular economy. In November 2019 the company brought to market the world's first fully recyclable stand-up pouch of a monomaterial (polyethylene or PE) with a removable label manufactured in compliance with Cradle-to-Cradle principles.

A steadily increasing number of products for the Frosch and Green Care Professional brands have been developed according to the Cradle-to-Cradle principle and certified with the level "Gold". Based on cooperative research work conducted on European surfactants since 2013, Werner & Mertz is using domestically cultivated plants as the raw material basis for Frosch brand formulas. As alternatives to palm kernel oil-based surfactants, the European vegetable oils offer many advantages, especially the protection of tropical rainforests and conservation of biodiversity.



13. Environmental Program

To ensure the continuous improvement of environmental performance, the Mainz site set measurable environmental and energy goals for the year 2021. Every company on the site has devised measures to reach those goals. The goals and implementation measures are listed below in excerpts from the Environmental Programs for the years 2021 and 2022.

Environmental Program 2021 for the Mainz Site Includes Action Plans for Energy Management					
Company	Type of Goal	Goal	Implementation	Year	Status
Werner & Mertz GmbH	Environment	Prevent the generation of 2.8 tons of residual waste by using dispensers with recyclable paper towels in sanitary facilities.	Use of dispensers with recyclable paper towels.	2021	Goal achieved. In 2021 4.5 tons of residual waste were prevented.
Werner & Mertz GmbH	Environment	Sustainability project to be carried out by trainees	In cooperation with NABU, our trainees get involved in a project to promote biodiversity on our factory grounds.	2021	Goal achieved.
Werner & Mertz GmbH	Energy	Replace old lighting systems with modern LED lighting systems in L1 (ground floor) that consume 28% less energy.	The conversion to LED is linked to expenses which have to be incorporated in the investment plan.	2021	Goal achieved. Continued conversions as needed.



Werner & Mertz GmbH	Environment	Further increase the share of renewable raw materials in W&M formulas to at least 20%	Implementation of innovative formula concepts with European surfactants available in the market.	2021	Goal achieved. Increased share by 20.4%.
Werner & Mertz Service & Logistik GmbH	Energy	Reduce energy use by 204,654 kWh th. compared to previous year	By manually adjusting the heating control to reduce room temperature in L3 (order picking hall and first upper floor).	2021	Manual adjustment made of parameter; for half of the winter period, a reduction of 101,306 kWh was achieved.
Werner & Mertz Service & Logistik GmbH	Environment	Avoid emissions of 20.6 t CO ₂ compared to previous year	By manually adjusting the heating control to reduce room temperature in L3 (order picking hall and first upper floor).	2021	Manual adjustment made of parameter; for half of the winter period, the avoidance of 8.3 t CO ₂ emissions was achieved.
ECC Ecological Cleaning and Care GmbH	Energy	Travel by train for 50% of visits to customers	Limited use of company cars and use of trains	2021	Goal not achieved. No visits to customer sites made due to pandemic.
Tana-Chemie GmbH	Environment	Conversion of product portfolio to Green Care Professional as part of Go Green campaign. Increase the share of Green Care Professional products to 35% of the entire portfolio (based on net net sales).	Product conversion to Green Care Professional portfolio.	2021	Goal achieved. Currently, 38% of the entire product portfolio has been converted to Green Care (measured on basis of net net sales).
Tana-Chemie GmbH	Energy	Provide sustainability driver training to 25% of field sales reps in Germany in 2021.	Register sales reps and conduct driver training.	2021	Goal achieved. Twenty-five percent of sales reps participated in driver training.



Erdal Rex GmbH	Environment	Increase net sales by 5% for every kilometer driven (from 83 Euro to 87 Euro)	Increase sales with the same or lower number of kilometers covered.	2021	Goal not achieved. Pandemic-related limitations hindered achievement of the goal.
Erdal Rex GmbH	Energy	Reduce CO ₂ emissions by 7% for customer visits compared to 2020. This corresponds to avoidance of 10 t CO ₂ emissions.	Conversion to fuel-efficient vehicles.	2021	Goal achieved. Reduced CO ₂ emissions for customer visits by 11.8%. This corresponds to avoidance of 15 t CO ₂ emissions.
Frosch Sales Team GmbH	Energy	Reduce CO ₂ emissions by 7% for customer visits compared to 2020. This corresponds to avoidance of 10 t CO ₂ emissions.	Conversion to fuel-efficient vehicles.	2021	Goal achieved. Reduced CO ₂ emissions for customer visits by 11.8%. This corresponds to avoidance of 15 t CO ₂ emissions.
BNS International GmbH	Environment	Increase by 3% the order value per package in Germany compared to 2019 as a pandemic-free basis year for the reduction of CO ₂ emissions	Equivalent sales in Germany with 97% of package count	2021	Goal achieved. Increased order value per package by 14%.
BNS International GmbH	Energy	Conduct sustainability driver training in 2021 for 25% of field sales representatives and company car users in Germany.	Register field sales reps for driver training.	2021	Goal achieved. Fifty percent of sales reps participated in driver training.
BNS International GmbH	Environment	Convert to 100% sustainable consumable office supplies	Office supplies will be acquired in future exclusively from specified eco range of office supply vendors.	2021	Goal achieved.



Environmental Program 2022 for the Mainz Site Includes Action Plans for Energy Management					
Company	Type of Goal	Goal	Implementation	Year	Status
Werner & Mertz GmbH	Environment	Reduce trucking by 4,200 km per year and reach 11 t CO ₂ e with acquisition of a baler for PET bottles.	Bottles that do not conform to specifications will be compressed with a new baler. The bales will be collected and transported by truck (instead of being transported, not compressed, in lattice boxes by truck).	2022	In process
Werner & Mertz GmbH	Energy	Realization of EnEV KfW 55 energy efficiency standard in new construction of manufacturing building H26.	Submit application to KfW.	2022	KfW application was accepted.
Werner & Mertz GmbH	Environment	Reduce cooling water by 12,682 m ³ per year compared to previous year with changes to formulas.	Change to laundry detergent formula to eliminate the need for cooling water.	2022	In process
Werner & Mertz GmbH, Werner & Mertz Service & Logistik GmbH	Environment	Active support of the city of Mainz as one of the leading hydrogen regions in Germany.	Financial interest in a hydrogen filling station at the Mombacher Kreisel in Mainz.	2022	In planning
Werner & Mertz Service & Logistik GmbH	Environment	Planning of pallet conversion from new pallets to B-pallets.	Increase the proportion of good used pallets in pallet inventory.	2022	In process
Werner & Mertz Service & Logistik GmbH	Energy	Reduce the electrical power needs for lighting in warehouse LZ 4 by 60% by switching to LED lighting.	Work with warehouse lessor on the switch over for lighting.	2022	In process



Werner & Mertz GmbH	Environment	Increase European surfactants in laundry detergent formulas (liquid and powder) by at least 15%.	Implementation of innovative formula concepts with European surfactants available in the market.	2022	In process
BNS International GmbH	Environment	Increase the order value per package by another 10% in Germany compared to 2019, a non-pandemic year which serves as the base year for reduction of CO ₂ emissions.	Unchanged sales in Germany with 90% of number of packages.	2022	In process
BNS International GmbH	Energy	Conduct sustainability driver training in 2022 for all field sales reps and company car drivers.	Register sales reps and carry out the driver training.	2022	In process
Tana-Chemie GmbH	Environment	Conversion of product portfolio to Green Care Professional as part of Go Green campaign. Increase the share of Green Care Professional products to 44% of the entire portfolio (based on net net sales).	Product conversion to Green Care Professional portfolio.	2022	Currently, 38% of the entire product portfolio has been converted to Green Care (measured on basis of net net sales).
Tana-Chemie GmbH	Energy	Conduct sustainability driver training in 2022 for 50% of field sales reps in Germany.	Register sales reps and carry out the driver training.	2022	In process
Erdal Rex GmbH	Environment	Increase net sales by 5% for every kilometer driven (from 81 Euro to 85 Euro)	Increase sales with the same or lower number of kilometers covered.	2022	In process



Erdal Rex GmbH	Energy	Reduction of CO ₂ emissions for customer visits by 11% (14.8 t) compared to year 2020.	Switch to more fuel-efficient vehicles.	2022	In process
Frosch Sales Team GmbH	Energy	Reduction of CO ₂ emissions for customer visits by 11% (14.8 t) compared to year 2020.	Switch to more fuel-efficient vehicles.	2022	In process
ECC Ecological Cleaning and Care GmbH	Energy	Make 50% of visits to customer sites by train.	Through limited use of company cars and increased use of the train.	2022	In process
Werner & Mertz GmbH	Energy	Lower electrical power use by 10,000 kWh compared to existing production facilities and previous year.	Implementation is connected to the construction of a new production building H26. The reduced use of well water, made possible by optimizing laundry detergent formulas, lowers the electrical power consumption for water pumping by about 20%.	2023	Laundry detergent formulas are in the implementation phase.
Werner & Mertz GmbH	Environment	Save 77 m ³ of well water and wastewater per year in laundry detergent production in comparison to existing production facilities and previous formulas.	With the optimization of laundry detergent formulas and the new system layout in the new production building H26, the rinsing of the plate heat exchangers is not required in many instances.	2023	Laundry detergent formulas are in the implementation phase. The optimization of the system layout will be included in the appropriate phase of the construction project.



Tana-Chemie GmbH	Environment	Conversion of product portfolio to Green Care Professional as part of Go Green campaign. Increase the share of Green Care Professional products to 50% of the entire portfolio (based on net net sales).	Product conversion to Green Care Professional portfolio.	2023	Currently, 38% of the entire product portfolio has been converted to Green Care (measured on basis of net net sales).
Werner & Mertz GmbH, Erdal Rex GmbH, Tana-Chemie GmbH	Environment	Use of sustainable and Cradle-to-Cradle certified printing ink for the entire Consumer and Professional product portfolio.	Step-by-step conversion for the core brand Frosch and for Professional.	2023	Frosch articles converted by end of 2021. Other articles by the end of 2022.
Werner & Mertz GmbH	Environment	100% Post-Consumer Recyclate (PCR) in all packaging.	Switch of all primary packaging to 100% PCR (related to packaging weight).	2025	Fifty-four percent of plastic now used (total, related to weight) has been switched to plastic recycle.
Werner & Mertz GmbH	Environment	100% recyclability of all plastic packaging.	Conversion of packaging systems (e.g., component replacement) to ensure 100% recyclability.	2025	Seventy-four percent of current plastic packaging portfolio is already 100% recyclable.



14. Release to the Public

We provide this Environmental Statement to inform our employees, customers and the general public of environmental protection activities in our company. We confirm the veracity of the information presented and hereby release the Environmental Statement for publication.

Management is responsible for the release of the environmental statement.

Our Environmental and Energy Management Officer Pamela Fandel is available to answer your questions.

Pamela Fandel

Werner & Mertz GmbH

Rheinallee 96

D-55120 Mainz

Mail: Nachhaltigkeit@werner-mertz.com



15. Validation Confirmation

The undersigned, Dr. Norbert Hiller, EMAS Environmental Auditor with Registration Number DE-V-0021, accredited or approved for Region 20 (NACE-Code Rev. 2), confirms that he has checked whether the site / the entire organization of Werner & Mertz GmbH, ERDAL-REX GmbH, Tana-Chemie GmbH, Werner & Mertz Service & Logistik GmbH und BNS International GmbH at Rheinallee 96 55120 Mainz, as given in the consolidated Environmental Statement (with registration number DE-152-00013), fulfills all requirements of Regulation (EG) Nr. 1221/2009 of the European Parliament and the Council of 25 November 2009 and its amendments Commission Regulation 2017-1505 from 28 August 2017 and Commission Regulation 2018/2026 from 19 December 2018 regarding organizations' voluntary participation in the Community Eco Management and Audit Scheme (EMAS).

INTECHNICA
FUTURE SECURE BUSINESS GROWTH

Erklärung des Umweltgutachters zu den Begutachtungs- und Validierungstätigkeiten nach Anhang VII der Verordnung (EG) Nr. 1221/2009 sowie nach Änderungs-VO 2017/1505 und 2018/2026

Der Unterzeichnende, Dr.-Ing. Norbert Hiller EMAS-Umweltgutachter mit der Registrierungsnummer DE-V-0021, akkreditiert oder zugelassen für den Bereich 20 (NACE-Code Rev. 2), bestätigt, begutachtet zu haben, ob die gesamte Organisation/ wie in der Umwelterklärung der Organisation

**WERNER & MERTZ GMBH, ERDAL-REX GMBH, TANA-CHEMIE GMBH,
WERNER & MERTZ SERVICE & LOGISTIK GMBH SOWIE BNS INTERNATIONAL GMBH**
am Standort
Rheinallee 96, 55120 Mainz
(mit der Reg.-Nr. DE-152-00013)

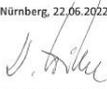
angegeben, alle Anforderungen der Verordnung (EG) Nr. 1221/2009 des Europäischen Parlaments und des Rates vom 25.11.2009 und Änderungs-VO 2017/1505 vom 28.08.2017 und 2018/2026 vom 19.12.2018 über die freiwillige Teilnahme von Organisationen an einem Gemeinschaftssystem für Umweltmanagement und Umweltbetriebsprüfung (EMAS) erfüllt.

Mit der Unterzeichnung dieser Erklärung wird bestätigt, dass

- die Begutachtung und Validierung in voller Übereinstimmung mit den Anforderungen der Verordnung (EG) Nr. 1221/2009 und Änderungs-VO 2017/1505 und 2018/2026 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 Organisation / des Standortes ein verlässliches, glaubhaftes und wahrheitsgetreues Bild sämtlicher Tätigkeiten der Organisation/ des Standortes innerhalb des in der Umwelterklärung angegebenen Bereichs geben.

Diese aktualisierte 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.

Nürnberg, 22.06.2022


Dr.-Ing. Norbert Hiller
Umweltgutachter

100% Recyclingpapier

CERTIFICATE

**Werner & Mertz GmbH
Erdal-Rex GmbH
tana-Chemie GmbH
Werner & Mertz Service & Logistik GmbH
BNS International GmbH**

Site
Rheinallee 96
55120 Mainz

Registration-No.: DE-152-00013

Date of first registration
1st July 2003

This certificate is valid until
22nd May 2024

This organisation has established an environmental management system according to EU-Regulation 1221/2009 and EN ISO 14001:2015 section 4 to promote the continual improvement of environmental performance, publishes an environmental statement, has the environmental management system verified and the environmental statement validated by a verifier, is registered under EMAS (www.emas-register.de) and therefore is entitled to use the EMAS-Logo.


EMAS
VERIFIED ENVIRONMENTAL MANAGEMENT

 **IHK** Chambers of Industry and Commerce of the German State Rheinland-Pfalz

Registrierführende Stelle im Gemeinschaftssystem für das Umweltmanagement und die Umwelterklärung

The Chambers of Industry and Commerce of the German State Rheinland-Pfalz as common Competent Body in the Community eco-management and audit scheme (EMAS).
24.06.2021


Albrecht Hornbach
Präsident


Dr. Tibor Müller
Hauptgeschäftsführer