WERNER & MERTZ

ENVIRONMENTAL STATEMENT 2024

Werner & Mertz GmbH & Co KG
Erdal GmbH
W&M Professional Vertriebs GmbH
W&M Holding GmbH

Neualmerstr. 11-13 • A-5400 Hallein

As of: 04/2024

Contents

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.

1.1. Foreword from Management

Dear Readers,

We at Werner & Mertz want to make a notable contribution to the conservation of our natural resources. To do so, we live in an exemplary energy-saving circular economy that protects the climate and preserves biodiversity. We encourage and challenge our employees to help us reach this goal according to their abilities and needs.

Every year since 2003 we have released an Environmental Statement in which we report our company's progress in making our production ecologically compatible and resource conserving. During this time, we have improved year after year for the good of people and Nature. 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 want to do business with companies that believe social and ethical issues are as important as ecological criteria. Experience has shown that customers appreciate the quality of our products, our productivity and manufacturing methods and their chance to bring sustainability into everyday life.

With EMAS, the most comprehensive and demanding environmental certification system, we can prove that we consistently integrate a functioning circular economy in our company. That starts with the use of renewable energies in production processes and efficient water treatment in our own Water Center and continues with integrally sustainable ingredients in our formulas and recyclate in our packaging. Furthermore, we are committed to social responsibility, ecological fairness and the protection of biodiversity. EMAS thus contributes greatly to solidifying the high level of trust our customers have in our brand.

We hope that our activities will prompt other companies and consumers to emulate us. Our efforts will succeed if we can effectively communicate all facets of our corporate responsibility and present both our accomplishments and the challenges we face.

Reinhard Schneider
Chairman of the Management Board

2. Major Changes since Environmental Statement 2023

- Reverse osmosis system for the production of fully demineralized water was put into operation.
- New filling facility (multi-line) was put into operation.
- Double batch system for production was put into operation.
- The automatic final packaging on the filling line for cans and tubes was taken out of operation.
- Occupational Safety has been moved into Integrated Management.

3. Our Company

Werner & Mertz, a Mainz-based family company in the hands of the fifth generation, has always considered sustainability as its foundation. We are concerned with the question of how a sustainable lifestyle can be made feasible for most people. As a sustainability pioneer, we want to push market development with circular products, i.e., integrally sustainable and high-performance cleaning and hygiene solutions that are harmless to humans and Nature.

The Werner & Mertz Group concentrates on two areas of competence. The traditional Consumer Division puts the end consumer at the center and offers an extensive product portfolio for household cleaning and care. The Professional Division provides professional bulk consumers with special cleaning and maintenance products and services.

With our trusted brands such as Frosch, emsal and Green Care Professional, we are firmly established and recognized as an innovative company for cleaning products and laundry detergents.

We have been committed to our Mainz location for more than 150 years. The headquarters of the Werner & Mertz Group are here and will remain here. More than 800 employees work on the site of the EMAS-validated companies Werner & Mertz GmbH, Erdal-Rex GmbH, Tana-Chemie GmbH, BNS International GmbH and Werner & Mertz Service & Logistik GmbH in the core business areas of Product Development, Product Supply, Marketing, Administration and Logistics.

Our second production site was founded in Hallein near Salzburg in 1953. It is home to the EMAS-validated companies Werner & Mertz GmbH & Co KG, Erdal GmbH, W&M Professional Vertriebs GmbH and W&M Holding GmbH. Over the years, the Austrian location has grown to about 160 employees and produces mainly special care products for the Professional Division and small series for the Consumer Division.

Our commitment to the production sites in Germany and Austria reflects our respect for local business conditions and our appreciation of extensive social services, the high level of vocational education, and ecological and social awareness.

From seven distribution sites, we deliver our laundry detergents, cleaning products and cosmetic products such as soaps and shower gels to many European countries and, via the Export department, to other parts of the world.

4. Our Corporate Policy

The core concerns of the Werner & Mertz Group are consolidated in our corporate policy. It clarifies our company profile, our goal orientation, our engagement in the areas of environment, energy and quality, other key topics and the values we stand for and live by every day. The content of our corporate policy serves as our guideline for making decisions and taking action.

This link takes you to our Corporate Policy:

Corporate Policy

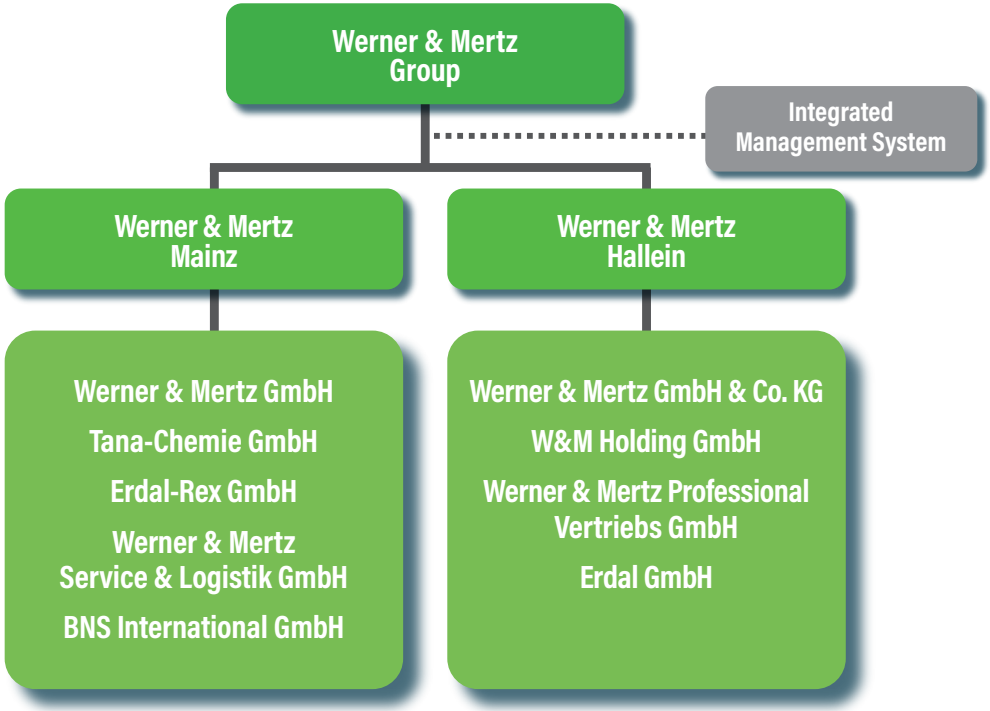
Beyond our dutiful compliance with legal requirements, we are committed to the following:

1. We want to develop recyclable, high-performance cleaning and hygiene solutions that are harmless to human life and Nature.
2. We want to maintain and further develop our Environmental and Energy Management systems in order to optimize our resource use, reduce burdens on the environment, increase energy efficiency and promote biological diversity.
3. We want to integrate our integrally sustainable approach and our goal-oriented culture in all processes.
4. We want to be at least one development generation ahead of the ecological benchmark for all fundamental elements such as formulas, packaging and production conditions, and to set new standards for feasibility.
5. With continuous risk management, we want to recognize early any potentially negative influences and derive suitable countermeasures as needed to reduce risk.

5. Our Environmental Management System

The success story of the Werner & Mertz Group is based on the highest standards for **sustainability** and **quality** and the ensuing consumer trust in our products and brands.
To meet our own standards, we combined the Environmental, Energy and Quality Management systems, whose criteria are used to certify companies within the Werner & Mertz Group, into an Integrated Management System (IMS).
The aim is to define requirements from norms and standards and implement them uniformly, address interdisciplinary topics, and create synergies between processes in varied management systems. We work reliably and verifiably on improving our environmental performance and energy efficiency in Environmental and Energy Management. The services and the functionality of the IMS are subject to annual company audits (on-site inspections and internal audits) by internal auditors.

The organizational chart shows the interrelationships of the Integrated Management system with EMAS-validated companies.



Interrelationships with Integrated Management System

Our Certified Management Systems

The Eco Management and Audit Scheme is particularly important for Werner & Mertz. It is the world's most extensive and demanding system for sustainable environmental management. Companies and other organizations voluntarily participate with the goal of making continuous improvements to their environmental protection activities. With EMAS validation of our production sites, we can prove that we consistently live our sustainability philosophy. EMAS thus contributes to deepening the trust our customers have in our products. In 2023 we celebrated 20 years of EMAS validation in Mainz.

Our Environmental and Energy Management system is structured according to the internationally applicable and recognized ISO 14001 and ISO 50001 standards and is examined and certified annually by an independent external auditor.

Our Quality Management System is structured according to the internationally applicable and recognized ISO 9001 standard and is examined and certified annually by an independent external auditor.

The production companies at the Mainz and Hallein sites are certified by the International Featured Standard (IFS), which includes requirements for the safety and quality of our products.

What makes EMAS special?

- Highest environmental standards based on the strictest EU criteria
- Annual internal audit
- Annual external audit conducted by independent environmental auditors
- Proof of continuous improvement to environmental performance
- Employee involvement
- Legal compliance monitoring
- External communication regarding the Environmental Management System

Legal Compliance

Adherence to statutory regulations is an essential component of our management systems. Certified companies' legal obligations regarding the environment and energy are managed in a digital legal system which is regularly updated with the latest statutory regulations. Norms and obligations can thus be systematically tracked and documented.

6. Milestones in Environmental and Energy Management

Milestones Mainz
Milestones Hallein
Milestones at both locations

1985

At the Hallein site, the fuel used in the boiler house was converted from heavy oil to natural gas. The change resulted in a significant reduction in emissions from steam generation for process and building heating.

1986

Launch of the Frosch brand that established the successful product line of environmentally friendly household cleaners.

1987

At the Mainz site, the wastewater network was divided into two systems: production wastewater in one and sanitary and other wastewater in another to allow targeted treatment for different types.

1989

At the Mainz site, construction begins on a physiochemical wastewater pretreatment system for production wastewater.

Launch of the Tana-Chemie GmbH Green series of environmentally friendly cleaning products for bulk customers.

1990

At the Mainz site, a pigging system was installed to clean pipelines. It significantly reduced the amount of rinsing water required.

1991

At the Mainz site, the fuel used in the boiler house was converted from heavy oil to natural gas. The change resulted in a significant reduction in emissions from steam generation for process and building heating.

1994

At the Mainz site, production facilities for household cleaners were rebuilt and automated in Building L1. The new facilities achieved savings in energy, wastewater and waste.

At the Hallein site, a biofilter was installed to eliminate odor emissions.

1995

At the Mainz site, business partner ALPLA moved onto factory premises. With packaging manufacturing close to production lines, 1,500 truck transports per year were eliminated, sparing the environment 570 metric tons of CO_2 emissions per year.

1996

At the Mainz site, production facilities for floor care and auto care products and for bulk customers in Building H22 were rebuilt and automated. Significant reductions were achieved in energy consumption, wastewater and waste.

1997

At the Mainz site, manufacturing and bottle-filling systems for innovative shoe care products were rebuilt and automated in Building L1. Significant reductions were achieved in energy consumption, wastewater and waste.

At the Hallein site, a special crisis plan was drafted in coordination with the responsible authorities. In addition, the factory's own waste area was rebuilt.

1998

A quantum leap for the environment was achieved with the development of a water-based, solvent-free formula for the range of shoe care products.

6. Milestones in Environmental and Energy Management

Milestones Mainz
Milestones Hallein
Milestones at both locations

2000

Implementation of risk management system that covers environmental production too.

2001

At the Mainz site, a quality management system was implemented for the business unit Product Supply and was ISO 9001 certified. Werner & Mertz GmbH became a member of the ÖKOPROFIT-Club. Since then, it regularly communicates with regional companies that pursue a similar sustainability philosophy in environmental matters.

2002

At the Mainz site, an Environmental and Energy Management System is set up.

Portions of buildings no longer required are demolished, resulting in a reduction of about 2% in annual heating energy consumption.

At the Hallein site, a Quality Management System for Product Supply is set up and certified according to ISO 9001 criteria.

2003

Werner & Mertz GmbH in Mainz publishes its first Environmental Statement and has its Environmental Management System certified according to ISO 14001 criteria and validated by EMAS.

2004

At the Hallein site, an Environmental Management System is set up.

2005

At the Mainz site, the Quality Management System is expanded to include Product Development and is certified according to ISO 9001 criteria.

The companies in Hallein, Werner & Mertz GmbH & Co KG, Erdal GmbH and W&M Professional Vertriebs GmbH, publish their first Environmental Statement and have the Environmental Management System certified according to ISO 14001 criteria and validated by EMAS.

Werner & Mertz implements a Group-wide sustainability guideline and, is the first medium-sized enterprise to become a member of the A.I.S.E. Charter for Sustainable Cleaning, an initiative of the European soaps, detergents and maintenance products industry.

2006

The first formulas of our foreign consumer brands Rainett and Froggy, and Tana-Chemie GmbH professional products are converted to comply with EU Ecolabel criteria.

At the Hallein site, the company's own well is put into operation for the production of fully demineralized water for our products and for cooling purposes in Production.

2007

Top management at Werner & Mertz orders the further development of the Environmental Management system into a sustainability system that is based on the three pillars of economy, ecology and social responsibility.

2008

Werner & Mertz Group publishes its first Sustainability Report.

6. Milestones in Environmental and Energy Management

Milestones Mainz
Milestones Hallein
Milestones at both locations

2009

At the Mainz site, construction begins on the new administration building K8, which is planned in compliance with sustainability guildelines.

Werner & Mertz becomes a founding member of the Business and Biodiversity Initiative in order to further emphasize its engagement in biodiversity. The umbrella brand Frosch receives the German Sustainability Award.

2010

At the Mainz site, the new administration building K8 goes into operation. It uses renewable energies such as wind power, photovoltaic cells and a geothermal groundwater system.

With the use of a minimum 50% of recyclate in plastic packaging, the umbrella brand Frosch sets new standards for environmentally friendly packaging in Europe.

2011

At the Mainz site, construction and operation of the new Water Center for the production of fully demineralized water and pretreatment of wastewater.

Werner & Mertz joins the German Environmental Management Association (B.A.U.M. e.V.). The proportion of recyclate in Frosh PET bottles is increased to 65%. In addition, for the first time, RSPO-certified palm oil is used.

At the Hallein site, parts of the production building are equipped with energy-optimized LED lighting. It is coupled with operation of the filling facilities and automatically adjusts to daylight.

2012

At the Mainz site, the new administration building K8 is the first industrial management building in Europe to receive the LEED Platinum certificate. Furthermore, Werner & Mertz Service und Logistik GmbH was EMAS-validated for the first time and is integrated in the existing Environmental Management System on the Mainz site.

Werner & Metz kicks off the Frosch Initiative: from here other initiatives are launched beyond our industry, e.g., the Recyclate Initiative, which aims to establish a functioning circular economy.

2013

The Energy Management System for both production sites in Mainz and Hallein is certified according to ISO 50001 criteria.

2014

At the Mainz site, the ventilation system in the Research & Development building F14 is modernized and optimized for energy efficiency.

At the Hallein site, Production is equipped with process-integrated cleaning. With Cleaning in Place (CIP), the facilities can be cleaned faster with less water. In addition, the lighting in the production halls was made more energy efficient.

2015

At the Mainz site, an online measuring device was installed in the wastewater pretreatment system to capture the CSB and TOC values. It saves about 1,200 test cuvettes containing mercury and dichromate per year.

At the Hallein site, a warehouse with state-of-the-art noise and thermal insulation was put into operation.

The production and filling of shoe care products was moved to Hallein, where the new shoe care competence center was established.

6. Milestones in Environmental and Energy Management

Milestones Mainz
Milestones Hallein
Milestones at both locations

2016

Werner & Mertz receives RSPO (Roundtable for Sustainable Palm Oil) certification.

At the Hallein site, the energy-efficient production facilities (Symex) for shoe polish goes into operation.

2017

At the Mainz site, construction begins on the new production building L8, which is designed according to state-of-the-art technology and with use of renewable energy such as photovoltaic cells.

At the Hallein site, W&M Holding GmbH is certified for the first time against ISO 140001 and ISO 50001 criteria and is EMAS validated. For optimized energy efficiency in Production, the fixed compressor was replaced with a variable speed screw compressor.

Werner & Mertz combines all management systems into an Integrated Management System (IMS).

2018

The Mainz site celebrates 15 years of EMAS certification.

At the Hallein site, a natural gas-based heating system was installed and put into operation in the administration building. Until now, the building had been supplied with heat via poorly insulated pipes from the production building.

2019

At the Mainz site, the entire new production building L8 was put into operation. Our business partner ALPLA moves into the ground floor and begins producing packaging that now goes directly into the bottle-filling facilities. For the first time, BNS International GmbH is EMAS-validated and ISO 14001 and ISO 50001 certified.

CEO Schneider receives the German Environmental Award. In addition, the stand-up pouch of 100% recyclable monomaterial is ready for market and the first cosmetic bottle of 100% HDPE material obtained from household waste collection is launched.

At the Hallein site, planning begins for a new wastewater pretreatment facility that will optimize wastewater quality.

2020

Werner & Mertz publishes for the first time its Sustainability Report according to the recognized GRI (Global Reporting Initiative) via the German Sustainability Code (DNK).

The Hallein site celebrates its 15-year EMAS anniversary. In addition, the new wastewater pretreatment system goes into operation.

Werner & Mertz merges the departments of Sustainability and Quality Management to make the management systems uniform and to secure its role as sustainability pioneer without loss of quality.

2021

Werner & Mertz manages for the first time to increase from 20% to 50% the share of recyclate obtained from consumer waste collections in its PET packaging.

2022

The joint venture Aneks Polska, a direct supplier of BNS International GmbH, is for the first time EMAS-validated and ISO 14001-certified. In addition, the completely recyclable spray head is market-ready. It contains a share of post-consumer recyclate in its mechanical components.

Werner & Mertz GmbH & Co KG is for the first time a system partner of bluesign, a sustainability standard for textile production that considers chemical safety for users and consumers. In addition, the outdated ion exchange system was replaced by a modern reverse osmosis system, which makes it possible to reduce significantly the chemical needs for water treatment.

2023

At the Hallein site, completion of construction and commissioning of the reverse osmosis system for the production of completely demineralized water. In addition, the multi-line unit, including double batch system, was put into operation. The focus was on regional deliveries to the Southern Europe customer group in efforts to reduce transport routes.

Werner & Mertz successfully increased the recycled share obtained from household waste in all PET packaging from 50% to 75%. Furthermore, in cooperation with the Öko-Institut e. V., the company calculated a complete, scientifically sound Corporate Carbon Footprint (CCF) that includes all three scopes for both production sites.

7. Direct and Indirect Environmental Impact

Environmental parameters are a company's activities, products and/or services that have a direct or indirect impact on the environment. The impact can be positive or negative. To monitor and manage all meaningful environmental parameters, all the EMAS-validated companies of the Werner & Mertz Group identify, analyze and assess their direct and indirect enviromental impact. The assessment provides information about the significance of environmental impact and serves as the basis for defining environmental goals. To better adjust to the always changing conditions, the companies regularly update the assessment of their environmental impact and consistently follow up with feasibly implemented measures.
The previously identified types of environmental impact are assessed according to the urgency with which they must be handled and how much influence we have over them.

7.1 Direct Environmental Impact

Direct environmental impact is directly connected to our activities and is under our control.

Composition of the Product Portfolio

Our company with the Frosch operates in accordance with sustainable, environmentally responsible business principles. We are driven by a desire to make a sustainable lifestyle beyond our brands attainable for a majority of the population. Within our industry, we accomplish that with exemplary ecological products and concepts for cleaning and care.
What all the products from Werner & Mertz have in common is their origin. They all come from our in-house Research & Development, which is made up of several groups, including the departments Formula Development, Packaging Development, and Research & New Technologies. In addition to coming up with innovations and new developments, R&D optimizes existing products and processes. Attributes of the contents, manufacturing, packaging and application are regularly examined. To meet high sustainability standards, our specialists thoroughly analyze raw materials, formulas and packaging components. We pursue our goal of sustainable development by considering a raw material's entire life cycle and the natural recycling that follows.

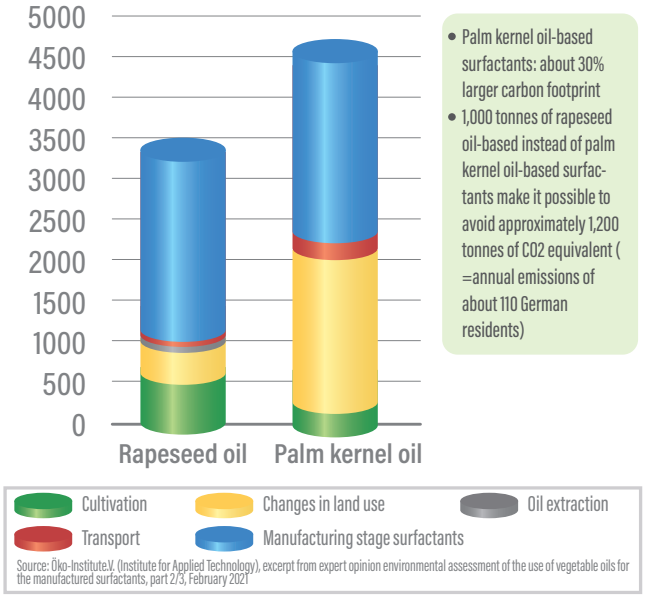
Formulas

For a long time, our company has used natural ingredients such as vinegar, lemon and soda in our products. A major portion of our cleaning products, however, consist of washactive substances called "surfactants". Surfactants in cleaning products and detergents provide cleaning power by dissolving dirt or soiling in water. Different variations of surfactants are available. Conventional cleaning products often contain petroleum-based surfactants; sustainable cleaners require surfactants made from regenerative raw materials. In addition to using petroleum, market participants have produced surfactants from mostly tropical palm kernel oil and, to a lesser extent, coconut oil. However, the conventional, nonsustainable cultivation of tropical oils destroys the rainforest's biodiversity in the long term and even the rainforest itself, the green lungs of the Earth. As part of our ambitious European Surfactants Initiative, Werner & Mertz continuously increases the share of surfactants based on European oil plants such as rapeseed, olive, linseed and sunflowers which come from Germany, Poland, France and Spain. That protects the rainforest in tropical regions and reduces the CO_2e emissions of our products. For this innovation, Dr. Edgar Endlein, managing director of Research & Development at Werner & Mertz, received in 2021 the respected Meyer-Galow Prize, which is awarded for the market launch of an innovation in chemistry with emphasis on sustainability.

Because the conversion requires substantial R&D expenditures, we are supporting the Roundtable on Sustainable Palm Oil (RSPO) and the sustainable cultivation of palm oil until we achieve long-term goal, i.e., obtaining all surfactants from European oil-producing plants.

Website European Surfactants Initiative

Carbon footprint (GWP - Global Warming Potential) **in kg CO_2 equivalent / tonne surfactants based on example of palm kernel oil** (Indonesia/Malaysia) **vs. rapeseed oil** (Central Europa)



- Palm kernel oil-based surfactants: about 30% larger carbon footprint
- 1,000 tonnes of rapeseed oil-based instead of palm kernel oil-based surfactants make it possible to avoid approximately 1,200 tonnes of C02 equivalent (=annual emissions of about 110 German residents)

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

Frosch and Green Care Professional products are developed according to our strict Development Guidelines in which the European Ecolabel (EU Ecolabel) applies as the minimum standard. The EU-Ecolabel is the driving force behind the promotion of especially environmentally friendly formulas for cleaning products. It includes all national ecolabels and sets strict criteria for environmentally friendly products.
Currently, the highest eco certification is Cradle-to-Cradle Certified®. For the certification, the product is analyzed against a detailed assessment key. The materials used, their recyclability, water and energy consumption and the social impact of product cycles and production methods are assessed. The effect of all ingredients of a detergent and cleaning product on human life is determined precisely to a concentration limit of 0.01 percent. That exceeds the European detergent regulation by a significant margin. In Europe the certificate with the Gold performance level was first awarded in 2013 to a product in the cleaning industry. We are proud that it was our Frosch brand Citrus Shower and Bath cleaner. Since then more than 50 of our Green Care Professional products have been awarded this certification.

The Cradle-to-Cradle Principle

7. Direct and Indirect Environmental Impact

Packaging

Werner & Mertz long ago began working on a establishing functional circular economy. The concept of sustainability cannot be limited to the product itself, but has to consider the packaging too. That's why Werner & Mertz founded the Recyclate Initiative in 2012 with the goal of obtaining plastic from European household waste collections like the Yellow Bag and reprocessing the material for high-quality reuse. In cooperation with our partners along the entire value chain, we managed—by means of energy-efficient mechanical recycling—to produce equivalent packaging from recyclate. Now a major portion of our packaging is made 100% of recyclate, 75 to 100% of which comes from post-consumer waste collections like the Yellow Bag. By 2025, all the packaging from Werner & Mertz should be made of 100% recyclable material and 100% recyclate.

We reached another milestone in the Recyclate Initiative with our sustainable stand-up pouch, . It is the first flexible packaging in the world to achieve Gold in all categories of the Cradle to Cradle Certified Product Scorecard. The completely recyclable pouch, made of a monomaterial (polyethylene) with removable wraparound label, solves the problem posed by printed plastic in recycling.

The latest success in the Recyclate Initiative is the completely recyclable spray head, which is the first to contain post-consumer recyclate in the mechanical components and to adhere to all 3R circularity strategies of reduce, reuse and recycle. All cleaning product bottles for the brands Frosch, Green Care Professional and Tana Professional will be equipped successively with the innovative spray head.

The environment benefits from our efforts in two ways. Plastic recycling prevents the polluting of land and sea and conserves natural resources by eliminating the need for crude oil in the production of new plastic. We effectively reduce the carbon footprint of every single product and thus actively contribute to climate protection. Moreover, we engage at social and political levels, advocating the use of high-quality plastic recycling and increasing awareness of our innovative solutions that can be implemented for immediate effect. Over the past decade, we have been recognized internationally as a Best-Practice example for recyclable packaging. Our innovations developed within the scope of the Recyclate Initiative have earned multiple awards.

Recyclate Initiative Chronology

Website We for Recyclate

7. Direct and Indirect Environmental Impact

Vehicular Fleet

As a rule, vehicles for our sales companies are replaced every three years or when they exceed a pre-defined number of kilometers. We use vehicles with environmentally friendly technologies which have lower CO_2 founded emissions than conventional models. The allowed CO_2 limits for vehicle models are specified in our Car Policy. We review our policy regularly and adjust it to reflect current developments, e.g., expansion of E-charging technology and the infrastructure at all our European locations. In addition, fuel consumption of our vehicles is regularly monitored to allow for quick reaction to unusual changes in consumption pat-terns. At the Mainz site, an e-auto as a pool vehicle is available for short business trips. Trips can be made to the external warehouse with a plug-in hybrid company car from Werner & Mertz Service & Logistik GmbH. In 2020 an external consulting company conducted a study on the topic "Sustainable Fleet".

Business Trips

The economic and ecological aspects should be considered in the planning of any business trip. It is recommended that all companies avoid unnecessary travel and, if possible, switch to virtual communication channels or use public transportation. Unavoidable air travel is overseen by our travel agency. The emissions generated by travel are assessed every year. On the basis of the assessment, we decide how much we donate for climate awareness education in German schools.

Internal Factory Logistics

At our production sites, short transport routes and optimized value chains are key components in our efforts to reduce negative environmental impact. The following examples provide impressive proof of our approach. For packaging manufacturing close to our production lines, our business partner ALPLA moved operations onto our factory grounds in Mainz in 1995. On our site, primary packaging of recyclate is manufactured and, since 2019, has been delivered by conveyor belts directly to our bottle-filling lines. Both sites have an all-electric fleet of forklifts, whose lithium-ion batteries are maintained with an energy and runtime-optimized charging management system.

7. Direct and Indirect Environmental Impact

Factory Structure Planning

For construction projects on our sites, planning always includes the sustainability aspect. Good examples are our administration building K8, which was awarded the respected building certification LEED Platinum, and the production building L8 on our Mainz site. Construction plans supported the use of recycled building material and took into account the Werner & Mertz sustainability concept for the building's interior equipment. In the foyer of the administration building, for example, untreated flooring made from native wood was installed. Office furniture is almost completely recyclable. Furthermore, both buildings have a well thought-out energy concept based on the highest energy standards and, with state-of-the-art environmental technology, ideally adapted to the unique geological and climatic conditions on the banks of the Rhine. A geothermal well, for example, is used for building cooling and heating in K8. Sixteen small wind turbines and photovoltaic modules are installed on the roof of the building. Two-thirds of the roof surface of production building L8 is equipped with PV modules. Another special features is the waste heat recovery from compressed air systems that is used to heat water and the building itself. Greenery on the facades and rooftops fosters the natural air-conditioning of the building and promotes biodiversity on our factory grounds. In the interior rooms of the administration building too, planted walls improve the indoor climate.

7. Direct and Indirect Environmental Impact

Biodiversity

Protecting, preserving and promoting biological diversity is a matter of concern for us. That's why Werner & Mertz, an ecologically oriented and socially responsible company, is engaged in many projects and cooperative efforts. Beyond protecting flora and fauna, binding climate-damaging greenhouse gases is an important aspect that plays a key role in our projects.

Biodiversity Projects in Germany:

- The project "Frosch protects frogs" was launched in 1998. In cooperation with the NABU Nature Conservation Center Rheinauen, Werner & Mertz works to improve living conditions for the tree frog and other amphibian species in their native Rheinauen (Rhine wetlands).
- Wetland meadows are among the most species-rich natural habitats in Germany. They also bind CO_2 and thus contribute greatly to climate protection. These are reasons why Werner & Mertz participates in NABU projects aimed at expanding and protecting regional floodplains.
- Werner & Mertz supported the since-completed LIFE Project "Restoration and conservation of sloping and transition mires in low mountain range Hunsrück (Hochwald area)". The goal was to reactivate the valuable wetlands so that flora and fauna typically found in mires could resettle there and halt the disintegration of the peat. Intact peatlands contribute significantly to climate protection as they store CO_2 over the long term.

Biodiversity Projects in Austria:

- The project "Frosch protects frogs" has been active for more than 10 years in Austria too. Together with WWF, we work for the protection and conservation of the Morava-Thaya floodplains, which are unique specimens of their type and among the absolute hot spots of species diversity in Central Europe.
- Werner & Mertz purses the goal of nature conservation and sustainable development of the Alpine region. In cooperation with the Austrian Alpine Club, about 40 mountain forest projects and environmental work sites are supported every year.

7. Direct and Indirect Environmental Impact

Inter-regional Biodiversity Projects:

- The charitable organization BOS Deutschland e.V. (Borneo Orangutan Survival) has devoted itself to protecting the orangutans and their habitat in the tropical rainforest of Indonesia, which is home to a wide variety of endangered plant and animal species. 2019 Werner & Mertz entered into long-term cooperation with BOS Deutschland. During the life of the agreement, Werner & Mertz will support the BOS orangutan rescue centers on Borneo along with the reintroduction of rehabilitated orangutans and monitoring of animals returned to protected rainforests. The objectives of both partners are species protection on Borneo, maintenance and expansion of the orangutans' habitat and a mutally beneficial exchange of information regarding palm oil and surfactants.
- In September 2019 Werner & Mertz owner Reinhard Schneider received the German Environmental Award from the German Federal Environmental Foundation (DBU). He donated his prize money of 250,000 EUR to BOS Deutschland for the reforestation of the Mawas reserve, one of Indonesia's largest peatlands. Plans call for the establishment of the most valuable type of forest for the climate – a wooded peatbog – on the degraded wasteland.
  It should create a natural habitat for many endangered species, including orangutans, frogs and several types of plants. Unlike many other companies, we understand reforestation exclusively as protection of biodiversity, not as a way to offset CO_2 emissions and certainly not as "climate neutrality".

Biodiversity Projects on Company Grounds:

On company grounds too, small biotopes can be created for plants and animals. As part of the trainee and employee projects, Werner & Mertz, together with NABU, has done quite a lot to increase the biodiversity on its own premises. Examples include setting up wild bee hotels and nesting blocks, cultivating rare plants and wild roses, and changing the mowing frequency. The flowering areas on the Mainz company grounds have since developed very well. Biological diversity also is promoted at our site in Hallein. With the "Frosch and Wild Bees" project, Werner & Mertz Hallein contributes to the conservation of habitats for native and organically cultivated plant species. Additionally, all green areas on the property and two traffic circles in Hallein were redesigned to make them bee-friendly. Since the beginning of the redesign in 2016, a wild bee expert has monitored the development of the wild bee population. The success of the project can be seen and quantified.
To call more attention to the subject of biodiversity, Werner & Mertz became a member in the cross-industry initiative Biodiversity in Good Company, which advocates biodiversity protection at political, business and social levels.

We want to make a notable contribution to the conservation of our natural resources. To do so, we live in an exemplary energy-saving circular economy that protects the climate and preserves biodiversity. We encourage and challenge our employees to help us reach this goal according to their abilities and needs.

Reinhard Schneider, Chairman of the Management Board

7.2 Indirect Environmental Impact

We can influence indirect environmental impact to a limited extent only because it arises in interaction with third parties.

Employees' Commute

To offer our employees options for an eco-compatible commute, we support the Jobticket and Jobrad and provide charging infrastructure for e-vehicles on company premises. We have equipped the site in Mainz with more than 40 outdoor electrical outlets and three charging stations whose use is free for employees.

Sustainability in the Supply Chain

Integrity, honesty, respect for human dignity and responsible handling of our ecological resources are at the core of our business activities. Our principles are anchored in a Code of Conduct that applies to the entire Werner & Mertz Group. We expect our business partners within the supply chain to conduct themselves accordingly. We have established processes and guidelines that define our sustainability standards in procurement processes. With the Supplier Code of Conduct, Werner & Mertz ensures that we maintain an ongoing dialog with business partners as we work together to communicate and promote our high sustainability standards and to identify possible ambivalence. We also strive to recognize early any potential risks that arise from our business relationships and act promptly to eliminate them.

Distribution and Procurement Logistics

In keeping with our corporate philosophy, we take sustainability viewpoints into consideration when we select our service providers. For our major partners, sustainability is a core element in corporate decision-making. Since 2008 we have conducted a study with the Fraunhofer Institute for Material Flow and Logistics (IML) in Dortmund on the sustainability aspects in our distribution logistics. The study determines the generated CO_2e emissions based on vehicle class, utilization, fuel consumption and type, and mileage (kilometers traveled). The findings give us a good overall view of our logistical structures and a solid basis for decisions about corrective measures.

Since 2008, CO_2e emissions per metric ton-km have been reduced significantly by using modern vehicles and our transport services providers' diligent fleet management. The comparison of 2008 and 2018 showed a reduction of about 40%. 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%.

Since 2023, consideration has been given to the procurement and distribution logistics in calculating the Corporate Carbon Footprint (CCF).

8. Input and Output Assessment

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

Input Water

Indicator	Unit	2020	2021	2022	2023
Total consumption	m^3	18,048	18,609	29,744 *	23,820
Well water	m^3	19,281	15,726	25,618	21,013
Municipal water	m^3	2,347	2,883	4,126	2,807

** In 2022 the increased production and filling of shoe care products, which require more cleaning and rinsing,*

Input Energy

Indicator	Unit	2020	2021	2022	2023
Total consumption	kWh	2,585,946	2,747,200	2,585,010	2,392,491
Electricity*	kWh	1,051,000	1,080,000	1,141,000	1,176,000
Natural gas	kWh	1,534,946	1,667,200	1,444,010	1,154,595
District heating	Liter	64,725	67,777	64,341	61,896

** Electricity comes from 100% renewable energy sources.*

Input Raw Materials

Indicator	Unit	2020	2021	2022	2023
Total of all raw metarials	t	3,721	3,055	3,032	2,656
Surfactants and detergent raw materials	t	1,321	1,461	1,393	1,186
Solvents	t	1,710*	818	714	583
Acids, lyes and salts	t	265	339	465	438
Other raw materials	t	425	437	460	449

** In 2020 during the corona pandemic, more products requiring alcohol (e.g., disinfectants) were produced. The figure, therefore, is relatively high in comparison to other years.*

Input Packaging

Indicator	Unit	2020	2021	2022	2023
Packaging (bottle, pouch, canister, caps)	Stück	88,461,268	78,742,984	76,939,326	69,243,058
Cartons	Stück	7,649,051	6,702,643	6,393,492	5,549,011
Labels	Stück	54,225,269	40,359,269	38,130,383	37,984,248

8. Input-Output Assessment

Output Emissions

Indicator	Unit	2020	2021	2022	2023
Total CO_2e emissions (market-based approach)	kg	537,180	577,248	513,851	436,591
Total CO_2e emissions (location-based approach)	kg	626,515	669,048	610,836	536,551
Scope 1					
CO_2e emissions from natural gas	kg	377,597	410,131	355,226	284,030
CO_2e emissions from refrigerant losses	kg	0	0	0	0
CO_2e emissions from SO_2	kg	10	11	10	8
CO_2e emissions from NO_x	kg	220	239	207	165
CO_2e emissions from diesel	kg	159,353	166,867	158,408	152,388
Scope 2					
CO_2e emissions from electricity (market-based approach)	kg	0	0	0	0
CO_2e emissions from electricity (location-based approach)	kg	89,335	91,800	96,985	99,960
Sonstige Emissionen					
Particulate matter	kg	0	0	0	0
VOC	kg	0	0	0	0

Output Products

Indicator	Unit	2020	2021	2022	2023
Cleaning and care products	t	12,777	10,903	10,088	9,403
Cleaning and care products	piece	38,200,730	34,431,450	35,046,759	31,807,203

8. Input-Output Assessment

Output Water

Indicator	Unit	2020	2021	2022	2023
Direct discharge (Salzach)	m^3	4,822	3,558	12,791	1,081
Indirect discharge (community treatment plant)	m^3	2,309	3,592	4,130	4,659

Output Waste

Indicator	Unit	2020	2021	2022	2023
Total waste	kg	308,672	249,809	243,988	303,694
Industrial waste (residual waste)	kg	48,560	59,470	63,660	63,160
Plastic sheets	kg	9,760	9,071	7,512	9,337
Plastic waste	kg	6,750	6,750	6,000	7,980
Filter cakes	kg	0	0	6,860	24,300
Backing paper (for labels)	kg	21,302	12,800	15,000	18,000
Cardboard ans (data protection) paper	kg	102,580	80,473	99,311	94,840
Wood waste	kg	68,700	56,205	19,915	50,370
Green waste	kg	6,800	ca. 7,000	ca. 7,000	7,240
Glass	kg	1,520	4,800	2,720	2,000
Metal scrap	kg	7,180	3,140	16,010	11,420
Production waste	kg	0	9,100	0	12,616
Hazardous waste	kg	10,520	1,000	0	14,236
Miscellaneous waste	kg	25,000	0	0	12,495

8. Input-Output Assessment

Basis for calculations:

Natural gas: *The emissions are calculated on the basis of Gemis 4.7, in which CO_2 emissions correspond to 0.246 kg per kWh of natural gas. Although we offset the resulting emissions, we report them here for reasons of transparency.*

Refrigerant: *The emissions are calculated on the basis of the specific GWP (Global Warming Potential) of the refrigerant used. The emissions arise from the maintenance and refilling of air-conditioning systems on our factory grounds.*

SO_2: *The emissions are calculated on the basis of Gemis 4.7, in which the CO_2e emissions correspond to 0.0000066269 kg per kWh of natural gas. The emissions arise from the burning of natural gas.*

NOx: *The emissions are calculated on the basis of Gemis 4.7, in which the CO_2e emissions correspond to 0.000143266 kg per kWh of natural gas. The emissions arise from the burning of natural gas.*

Electricity: *In the market-based approach, emissions are calculated with the emission factor of the supplier for the delivered electrical product based on the energy mix and electricity labeling. The factor is 0 kg CO_2 per kWh. In the location-based approach, we use the emission factor of the electricity mix for the power grid on which the consumer is found. In this case the emissions are calculated with 0.085 kg CO_2 per kWh. Because requirements and definitions are unavailable, we report both approaches to ensure transparency.*

Diesel: *The calculations of emissions are based on data from the federal Environment Agency in Vienna in which the CO_2 emissions per liter of diesel correspond to 2.462 kg. The emissions were generated by the leased vehicles for our sales representatives. Because it is not possible to differentiate between business and personal use, the reported diesel emissions for the fleet are higher than the actual Scope 1 emissions.*

9. Environmental Performance Figures for 2023

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 effective-ness 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 (metric tons) and number of pieces of finished product also is shown.

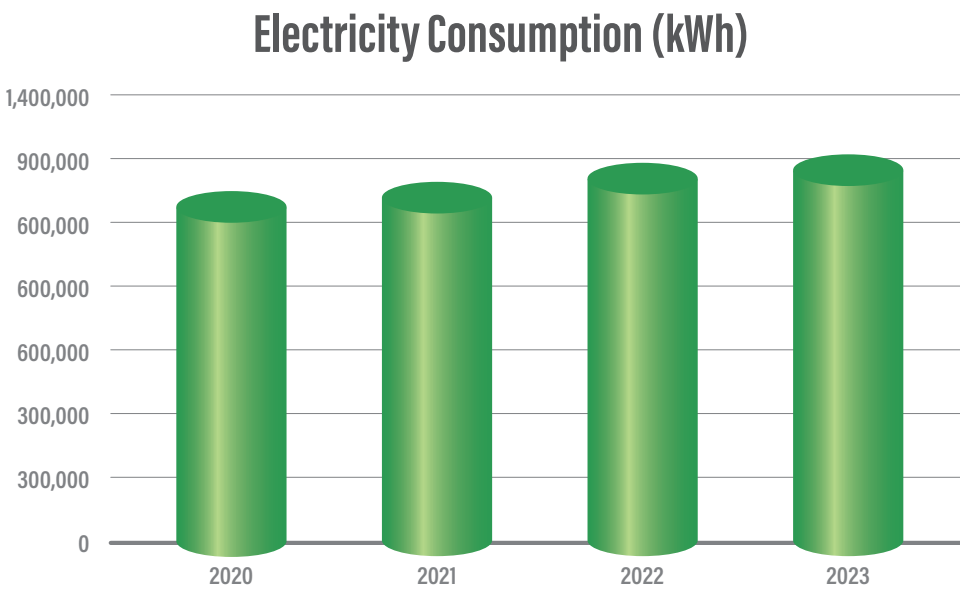
9. Environmental Performance Figures for 2023

Energy

The responsible use of energy is an important element of sustainability. For purposes of monitoring and optimizing energy use, we implemented an energy management system in compliance with ISO 50001 in 2013. By means of targeted energy data capture, we can determine in detail the consumption of electricity, natural gas, district heating and compressed air. With the findings, we can identify key usage areas and potential savings and develop action plans for energy management that supplement measures in the Environmental Program. The main energies used on the Hallein site are electricity and natural gas. We have a great demand for Production and the air-conditioning of our buildings. Natural gas heats the buildings, generates hot water and process steam.

The Hallein site purchases electricity from the local supplier Salzburg AG, whose supply mix has come exclusively from regnerative sources since 2013 (market-based approach). Electricity consumption at the Hallein site increased 3.1% in 2023 over 2022. The increase is attributed to an emergency measure taken when the steam boiler failed. On short notice, a switch had to be made to electricity-operated heat exchangers in order to generate heat.

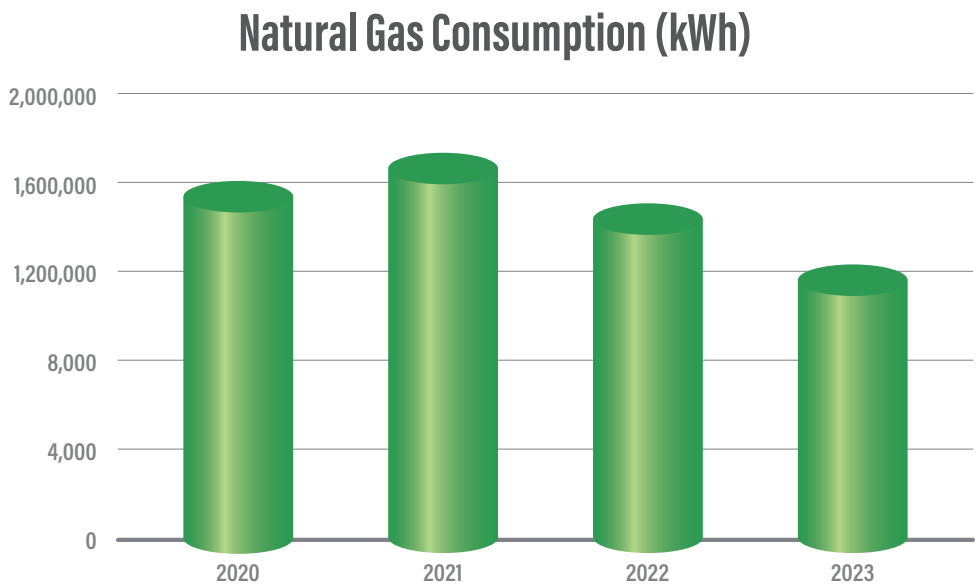
The slight increase seen in electicity use since 2020 is traced to the installation of new systems and a reverse osmosis system and the electrification of a heating chamber.



9. Environmental Performance Figures for 2023

Natural gas

Natural gas is required on the Hallein site to heat buildings and generate steam. The unadjusted gas consumption in 2023 sank in comparison to previous year by 20% (see Input-Output Assessment). The reduction was caused by the failure of the steam boiler. The required heating energy in that time period was provided by electricity. Organizational changes and process optimizations at the beginning of 2023 led to the switch from a continuous three-shift to a continuous two-shift operation so that the production halls no longer had to be heated at night. In addition, the flow temperature of the heating control unit was reduced and the room temperature lowered.

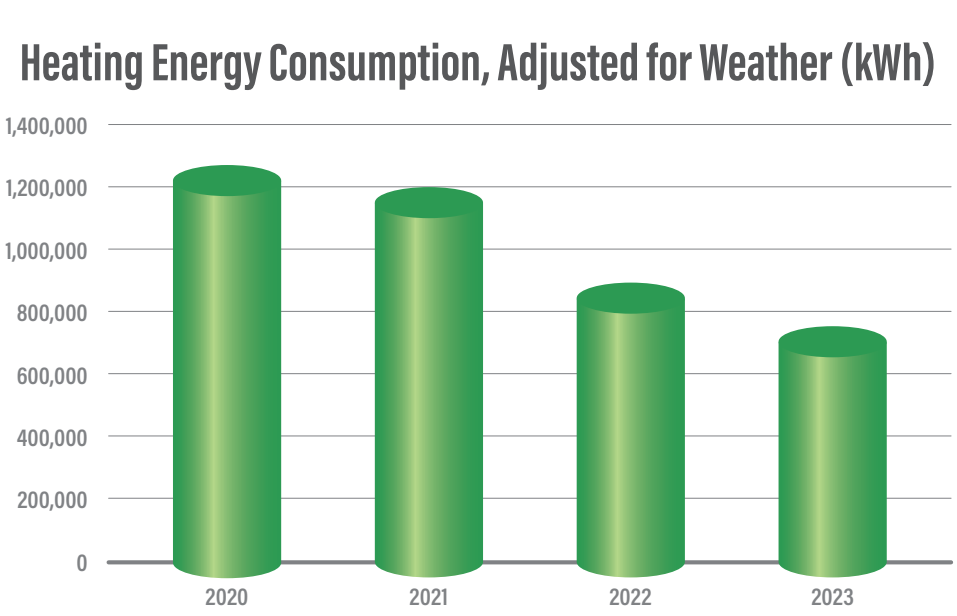


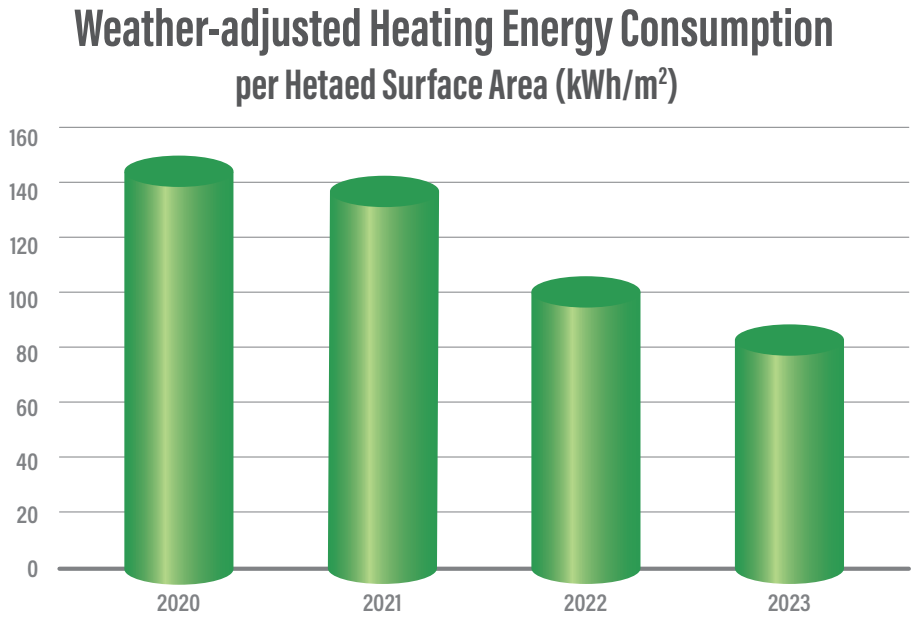
9. Environmental Performance Figures for 2023

Heating Energy

The figures for heating energy have to be adjusted to allow a correct comparison of gas consumption. First, the consumption for building heating depends on the weather. That means in a comparably warm year, the heating usage should be lower. Second, the natural gas portion for heating hot water and another portion used for processes have to be excluded from the adjustment. Overall, the adjusted natural gas savings in 2023 were 16.7% compared to prior year.

The specific natural gas consumption adjusted for weather and hot water and the specific consumption per square meter are shown in the following chart.

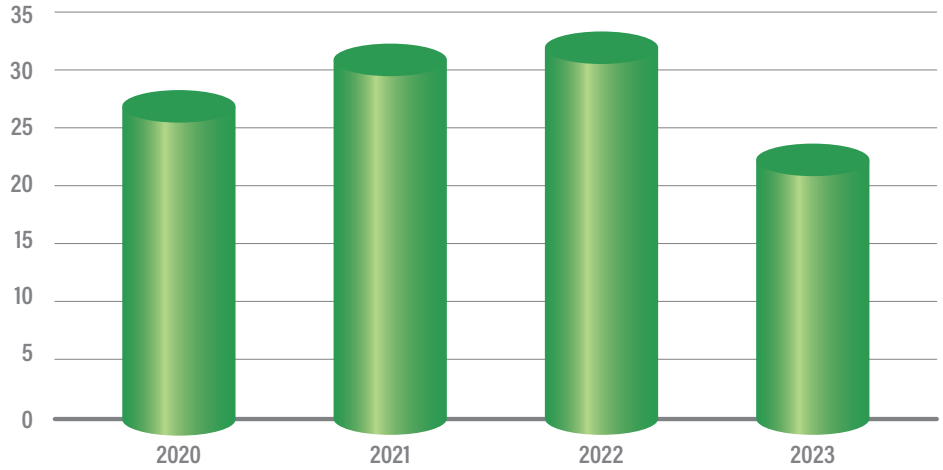




Compressed Air

Commpressed air is used primarily on the Hallein site in the filling process, e.g., with the spriral conveyors for triggers and caps. The electricity consumption for compressors in 2023 decreased by 34% over prior year. The reduction occurred with the elimination of the final packaging line for cans and tubes. In 2020, when more large-volume articles such as disinfectants were produced, a positive effect was seen in compressed air consumption. In 2021 and 2022, more shoe care products were manufactured whose filling requires more compressed air. In the winter, the waste heat potential of the compressor stations is used as supplemental heat in the warehouse.

Compressed Air Consumption per Filling Mass (kWh/t)



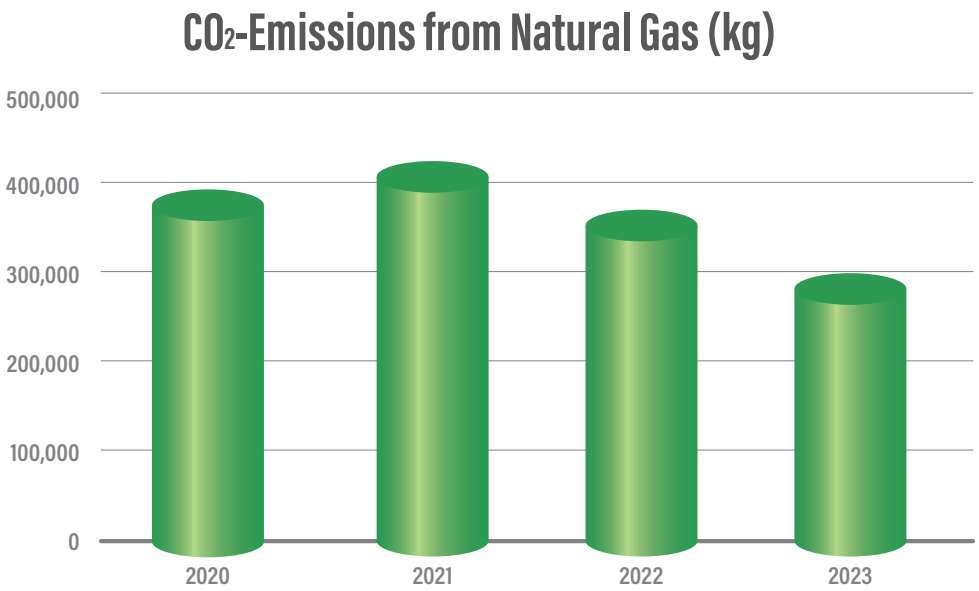
9. Environmental Performance Figures for 2023

Emissions

We capture or assess our CO_2e emissions from our Scope 1 and Scope 2. Together with the independent Öko-Institut e. V., we carried out a project for the creation of an integrally sustainable, scientifically sound greenhouse gas assessment. The calculated Corporate Carbon Footprint, based on the Greenhouse Gas Protocol, has been written for the production sites in Mainz and Hallein. The assessment is updated annually.

Emissions from natural gas within Scope 1 fell by 20% in 2023 compared to 2022, equivalent to consumption. The reductions are broken down as follow: 15.89% heating in Production; 3.95% steam; 0.21% heating in office building.

Production is equipped with closed systems in storage tanks, piping systems, manufacturing containers and filling facilities. Therefore, Volatile Organic Compound (VOC) emissions occur through evaporation only in very small quantities. Authorities did not specify a VOC emissions limit for the site. Equipment and machinery subject to VOC facilities regulations are not on the Hallein site.



9. Environmental Performance Figures for 2023

Water

At Werner & Mertz the sustainable handling of water has been part of the corporate philosophy from the start.

The availability of water at the Hallein site is ensured by our own well and the municipal water supply system.A major portion of treated water goes into the manufacturing of our products. Since 2006, we have drawn up to 80 cubic meters of water daily from the well on company premises and generate completely deminteralized water for Production by means of the newly installed (2023) reverse osmosis system. We draw another 15 cubic meters of water from the well daily for cooling purposes. That water does not come into contact with products or other operating materials and, completely uncontaminated, is redirected into the Salzach river.

Water from the production buildings is treated to be used for cleaning purposes and then directed to the communal waste treatment system of the Greater Salzburg Conservation Association. Fluctuations in wastewater occur depending on the production mix. Shoe polish manufacturing and filling require complex cleaning and rinsing processes as those products need frequent material change-overs which ensure uniform product quality.

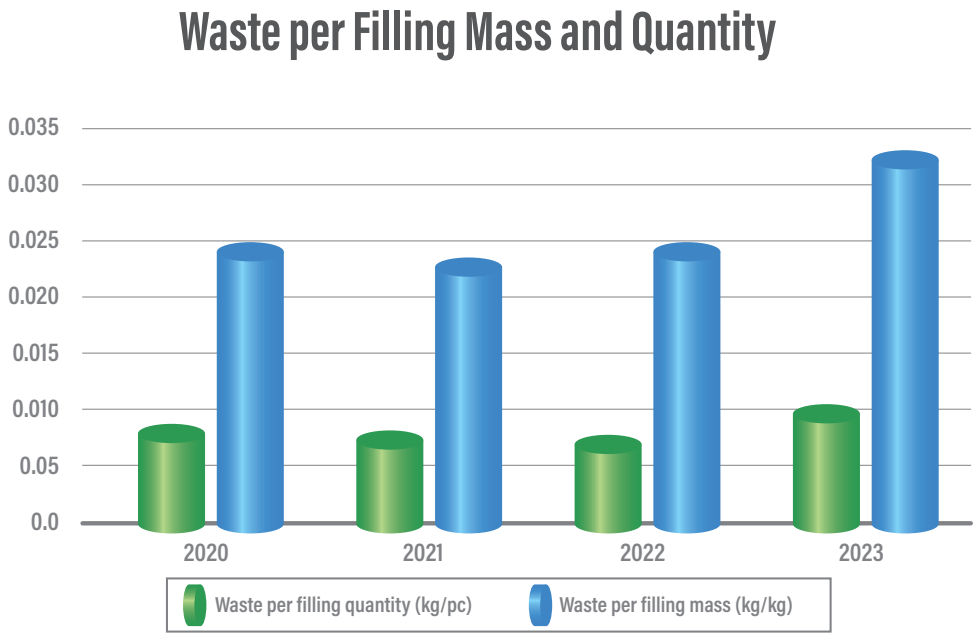
To prevent highly fluctuating wastewater loads, we are obliged to pre-treat, neutralize and direct our production wastewater to water treatment facilities daily. Polluted wastewater, containing lipophilic substances, for example, is tested continuously and monitored by government agencies. The permitted limits were not exceeded.

9. Environmental Performance Figures for 2023

Waste

Responsible handling of resources is part of a sustainable lifestyle. With resource-conserving use of raw materials, we want our activities to have maximum impact to keep the environment—local and global—in balance. Wherever possible, we close loops. At our production sites we long ago introduced a sustainable disposal concept and regularly look into ways to use our waste. Our backing paper for labels, for example, is reused. In 2023, by means of the completely closed system, 18 metric tons of backing paper were recycled, which corresponds to the avoidance of CO_2 emissions of about 34 metric tons. Cardboard cartons, wood pallets, residual waste and filter cake are by far the largest waste fractions on the site. The waste is directed into a proper recycling system.

The rise in the amount of waste per filling mass or quantity in 2023 is attributed to putting the wastewater treatment facility into operation and producing the related filter cake and to an increase in the normal amount of wood waste.



9. 9. Environmental Performance Figures for 2023

Noise

No noise emitted from the Werner & Mertz sites in Mainz and Hallein exceeds statutory limits.

Contaminated Sites

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

10. 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.

Legend:
Figure A: Total annual input/impact in specified environmental area
Figure B: Overall annual output of the organization (in metric tons (B1); 1000 pieces (B2))
Figure R: Ratio of A/B (metric tons (R1); to 1000 pieces (R2))

Core Indicators per Year		2020	2021	2022	2023	Comments
Figure B_1		12,777 t	10,903 t	10,088 t	9,403 t	
Figure B_2		38,201 *	34,431 *	35,047 *	31,807 *	(* = 1000 pieces)
Energy Efficiency						
Total direct energy consumption:	Zahl A	2,586 MWh	2,747 MWh	2,585 MWh	2,392 MWh	Direct use includes electricity ans natural gas.
	Zahl R_1	0.2024 MWh/t	0.2520 MWh/t	0.2562 MWh/t	0.2544 MWh/t	
	Zahl R_2	0.0677 MWh/*	0.0798 MWh/*	0.0738 MWh/*	0.0752 MWh/*	
Total use of renewable energies:		1,051 MWh	1,080 MWh	1,141 MWh	1,176 MWh	Since 2014, we have used only (100%) green electricity.
		0.0823 MWh/t	0.0991 MWh/t	0.1131 MWh/t	0.1251 MWh/t	
		0.0275 MWh/*	0.0314 MWh/*	0.0326 MWh/*	0.0370 MWh/*	
Material Efficiency						
Total of all raw materials additives and operating supplies:		3,721 t	3,055 t	3,032 t	2,656 t	See Input-Output Assessment for details.
		0.2912 t/t	0.2802 t/t	0.3005 t/t	0.2825 t/t	
		0.0974 t/*	0.0887 t/*	0.0865 t/*	0.0835 t/*	

10. Core Indicators

Legend:
Figure A: Total annual input/impact in specified environmental area
Figure B: Overall annual output of the organization (in metric tons (B1); 1000 pieces (B2))
Figure R: Ratio of A/B (metric tons (R1); to 1000 pieces (R2))

Core Indicators per Year	2020	2021	2022	2023	Comments
Water					
Total annual water use:	18,048 m^3 1.6553 m^3/t 0.5242 m^3	18,609 m^3 1.8447 m^3/t 0.5310 m^3	29,744 m^3 2.9485 m^3/t 0.8487 m^3	23,820 m^3 2.5333 m^3/t 0.7489 m^3	Water use includes water drawn from municipal water system and from wells.
Waste					
Total annual waste generation:	308.672 t 0.0242 t/t 0.0081 t/*	249.809 t 0.0229 t/t 0.0073 t/*	243.988 t 0.0242 t/t 0.0070 t/*	303.694 t 0.0323 t/t 0.0095 t/*	See Input-Output Assessment for details.
Total annual hazardous waste generation:	10.52 t 0.0008 t/t 0.0003 t/*	1 t 0.0001 t/t 0.0000 t/*	0 t 0.0000 t/t 0.0000 t/*	14.236 t 0.0015 t/t 0.0004 t/*	See Input-Output Assessment for details.
Biological Diversity					
Total area used (property site):	15,452 m^2	15,452 m^2	15,452 m^2	15,452 m^2	An archictectual firm determined the area of sealed and unsealed surfaces.
Total sealed surface area:	6,617 m^2	6,617 m^2	6,617 m^2	6,842 m^2	
Total near-natural area:	8,835 m^2	8,835 m^2	8,835 m^2	8,610 m^2	
Proportion of sealed surfaces:	42.82 %	42.82 %	42.82 %	44.28 %	

10. Core Indicators

Legend:
Figure A: Total annual input/impact in specified environmental area
Figure B: Overall annual output of the organization (in metric tons (B1); 1000 pieces (B2))
Figure R: Ratio of A/B (metric tons (R1); to 1000 pieces (R2))

Core Indicators		2020	2021	2022	2023	Comments
Emissions						
Total annual emissions:	CO_2e from natural gas	378 t 0.0296 t/t 0.0099 t/*	410 t 0.0376 t/t 0.0119 t/*	355 t 0.0352 t/t 0.0101 t/*	284 t 0.0302 t/t 0.0089 t/*	The emissions are calculated on the basis of Gemis 4.7, in which CO_2 emissions correspond to 0.246 kg per kWh of natural gas. Although we offset the resluting emissions, we report them here for reasons of transparency.
	CO_2e from electricity	89 t 0.0070 t/t 0.0023 t/*	92 t 0.0084 t/t 0.0027 t/*	97 t 0.0096 t/t 0.0028 t/*	100 t 0.0106 t/t 0.0031 t/*	Location-based-approach: The emissions are calculated on the basis of the used emission factor of the electricity mix for the power grid on which the consumer is found.
	CO_2e from electricity	0 kg 0.0000 kg/t 0.0000 kg/*	o kg 0.0000 kg/t 0.0000 kg/*	o kg 0.0000 kg/t 0.0000 kg/*	0 kg 0.0000 kg/t 0.0000 kg/*	Market based approach: The emissions are calculatedon the basis of the energy mix and the electricity origin labelling of the provider with 0 kg CO_2 per kWh
	CO_2e from SO_2	10 kg 0.0008 kg/t 0.0003 kg/*	11 kg 0.0010 kg/t 0.0003 kg/*	10 kg 0.0009 kg/t 0.0003 kg/*	8 kg 0,0008 kg/t 0.0002 kg/*	The emissions are calculated on the basis of Gemis 4.7, in which CO_2e emissions correspond to 0.000143266 kg per kWh of natural gas. The emissions arise from burning of natural gas.
	CO_2e from NOx	220 kg 0.0172 kg/t 0.0058 kg/*	239 kg 0.0219 kg/t 0.0069 kg/*	207 kg 0.0205 kg/t 0.0059 kg/*	165 kg 0.0176 kg/t 0.0052 kg/*	The emissions are calculated on the basis of Gemis 4.7, in which the CO_2e emissions correspond to 0.000143266 kg per kWh of natural gas. The emissions arise from the burning of natural gas.
	CO_2e from diesel	159 t 0.0125 t/t 0.0042 t/*	167 t 0.0153 t/t 0.0048 t/*	158 t 0.0157 t/t 0.0045 t/*	152 t 0.0162 t/t 0.0048 t/*	The calculations of emissions are based on data from the federal Environment Agency in Vienna in which the CO_2 emissions per liter of diesel corrspond to 2.432 kg. The emissions were generated by the leased vehicles for our sales representatives. Because it is not possible to differentiate between business and personal use, the reported diesel emissions for the fleet are higher than the actual Scope 1
	PM	0 kg 0.0000 kg/t 0.0000 kg/*	0 kg 0.0000 kg/t 0.0000 kg/*	0 kg 0.0000 kg/t 0.0000 kg/*	0 kg 0.0000 kg/t 0.0000 kg/*	No Particulate Matter (PM) emissions.

11. Environmental Program

The corporate policy of the Werner & Mertz Group, which includes environmental, energy and quality policies, is the foundation of our activities in Environmental and Energy Management. It covers all operational areas and specifies environmental and energy-related principles for action. The companies in the Werner & Mertz Group use the policy as the basis for measurable goals in their efforts to continuously improve and promote environ-mental protection and energy efficiency.

Environmental Program 2023 for Hallein

Includes Action Plans for Energy Management

Company	Type of Goal	Goal	Year	Status
W&M Holding GmbH	Environment	**Make the Jobrad (bicycle for commuting) more attractive.**	2023	Eleven new bicycles were provided to employees in 2023. Employees made good use of the in-house bicycle service.
W&M Holding GmbH	Energy	**Reduce energy consumption for heating by 2% compared to 2022.**	2023	**Goal achieved:** The adjusted heating energy consumption decreased 5.6% compared to 2022.
Werner & Mertz Professional Vertriebs GmbH	Environment	**Increase sales of Green Care product range by 20%.**	2023	**Goal achieved:** Sales of Green Care product range increased 21%.
Werner & Mertz Professional Vertriebs GmbH, Erdal GmbH	Energy	**Reduce energy consumption for heating by 2% compared to 2022.**	2023	**Goal achieved:** The adjusted heating energy consumption decreased 5.6% compared to 2022.
Werner & Mertz Professional Vertriebs GmbH	Energy	**Decrease average fuel consumption by 1% over 2022.**	2023	**Goal not achieved:** Fuel consumption was 0.85% higher than in 2022.

11. Environmental Program

Company	Type of Goal	Goal	Year	Status
Erdal GmbH	Environment	**Increase the share of ecological and sustainable Frosch products by volume growth of 2% compared to 2022.**	2023	**Goal achieved:** Compared to 2022, growth of 9% was realized in ecological and sustainable Frosch products.
Erdal GmbH	Environment	**The use of refill pouches instead of original bottles avoids plastic and CO_2. Therefore, the quantity of refill pouches should be in-creased by 2% over 2022.**	2023	**The goal cannot be assessed exactly.** Because detergent from the refill pouch washes more loads per pouch (18 instead of 24), the useful life of the pouch is increased by 25%. The switch reduces packaging waste.
Werner & Mertz GmbH & Co KG	Environment	**Plan the pallet conversion of new pallets to B pallets.**	2023	**Goal achieved:** Production can now process B pallets and new pallets.
Werner & Mertz GmbH & Co KG	Energy	**Construction of an ether sulfate dilution system. Trucking kilometers and CO_2e emissions can be avoided with supply.**	2023	**Goal in process:** The trade license has been granted by the authorities. Construction is budgeted for 2024.
Werner & Mertz GmbH & Co KG, W&M Holding GmbH, Erdal GmbH, Werner & Mertz Professional Vertriebs GmbH	Environment	**Participation in a project on Greenhouse Gas accounting for the production sites in Mainz and Hallein.**	2023	**Goal achieved:** In collaboration with Öko-Institut e. V., a complete, scientifically sound Corporate Carbon Footprint (CCF) was worked out for both production sites. The calculated Corporate Carbon Footprint is based on the Greenhouse Gas Protocol.

Environmental Program 2024 for Hallein

Includes Action Plans for Energy Management

Company	Type of Goal	Goal	Year	Status
Werner & Mertz Standort Hallein	Environment, Energy	**Switch from 60% to 80% acetic acid solution, thereby reducing the order frequency by 25%. The change reduces transport trips and the number of rigid Intermediate Bulk Containers (IBCs) in circulation.**	2024	In process.
Werner & Mertz Standort Hallein	Energy	**Draft a concept for eliminating natural gas and switching to electricity.**	2024	In process.
Werner & Mertz Standort Hallein	Environment, Energy	**Construction of an ether sulfate dilution system. When construction is completed, about 50% of delivery transportation in km can be avoided. That corresponds to a reduction of 20.7 tonnes of CO_2e per year.**	2024	In process.
Werner & Mertz Standort Hallein	Environment	**Switch from IBC to tanker delivery by Texapon. As a result, 312 IBCs per year will not go into circulation.**	2024	In process.

12. Communication

Internal Communication

Our employees are our greatest good. Their engagement, conviction and creativity are a driving force behind our jointly achieved success. Our communication with employees, therefore, is a very important matter. We practice and encourage respectful interaction within the team and promote community, trustworthy communication and learning from one another.

We routinely post articles on environment and energy-related topics in our employee newspaper and on our info monitors in Mainz and Hallein. As part of regularly held training sessions, we inform all employees of sustainability subjects such as environmental protection and energy conservation measures. All employees are obliged to take part in annual online training on the Integrated Management System. During their initiation, new employees attend Welcome Day on which Sustainability Management is presented. If the job function requires, a personal discussion on the subject may be held with a new employee. For our employees we have created an internal glossary in which key terminology for sustainability is explained by our experts in a way everyone can understand. Every glossary entry is accompanied by an explanation of our company's position on the subject.

Employee Involvement

When employees begin working at Werner & Mertz, they are introduced to and integrated in our sustainability philosophy. With Idea Management, we have a way for all employees to propose potential improvements for how we work. In a pre-defined process, suggestions are evaluated by experts in the affected area and if they are implemented successfully, the employee is awarded a bonus.

At regularly scheduled sustainability meetings, discussions are held on topical sustainability issues of interest to the company. Meeting participants represent all specialized departments of Production, Research & Development, Marketing, Logistics, Sales, Personnel, Corporate Communications, Compliance, Legal Affairs, Purchasing and Corporate Affairs. For the operation work related to the Environment and Energy Management Systems, an environment or energy team meets every quarter to initiate projects, review key indicators and define goals.

12. Communication

External Communication

When we provide information to our external stakeholders, we clearly emphasize and transparently communicate the virtues of our corporate sustainability philosophy and the benefits of our products.

DNK: The Sustainability Code is a cross-sector transparency standard for reporting corporate sustainability practices and performance. There we file a complete report on our compliance with DNK criteria and non-financial Global Reporting Initiative (GRI) indicators.

deutscher-nachhaltigkeitskodex.de

Integrally sustainable: On our integrally sustainable portal we inform visitors of our sustainability strategy and how it contributes to meeting Sustainable Development Goals.

integrally-sustainable.com

Initiative Frosch: With the Initiative Frosch Werner & Mertz paves the way for forward-thinking, sustainable solutions. It shows that recycling plastic is sensible, feasible and necessary. The ingredients for cleaning products should be powerful and as environmentally friendly as possible. In addition, they should be based on European oil-producing plants.

initiative-frosch.de

Recyclate-Initiative: To advance the circular economy, Werner & Mertz established the Recyclate Initiative in 2012. The goal is to obtain used plastic from European household waste collections like the Yellow Bag and reprocess it for high-quality reuse.

wir-fuer-recyclat.de

Circular Success: With its new Circular Success sustainability campaign and the related Internet site, the Professional Division of Werner & Mertz takes a strong stance against climate greenwashing.

circular-success.com

12. Communication

Press Center: On the Werner & Mertz news platform, we bundle information about the company, our brands, initiatives and campaigns.

news.werner-mertz.de

Green Care Academy: The Green Care Academy is an innovative continuing education offering for cleaning staff. It conveys practical, easy-to-understand information for everyday work so that cleaning staff, armed with expert knowledge, can master their jobs.

green-care-academy.com

Lobby register Germany/Europe: With an entry in the lobby register, Reinhard Schneider and Timothy Glaz are permitted to represent the interests of our medium-sized family company in all relevant subjects related to the sustainable transformation of the German and European economy for effective climate protection, the circular economy and biodiversity conservation.

lobbyregister.bundestag.de

VNU: In the Association for European Sustainability and Eco-Management Professionals, we engage with other EMAS-validated companies in pursuit of overall, systematic environmental protection

vnu-ev.de

B.A.U.M.: Our company is member of the German Environmental Management Association network that promotes the core topic, i.e., a liveable future made possible by sustainable business within planetary boundaries.

baumev.de

Biodiversity in Good Company Initiative: We are a member in the initiative Biodiversity in Good Company for the purpose of regularly exchanging information with other companies and experts in the field of biodiversity. Protection of the biosphere and thus biological diversity is an important element in the integrally sustainable orientation of our company.

business-and-biodiversity.de

Social Media: On social media channels of Werner & Mertz and the Initiative Frosch, we post information about our work and about circular economy topics.

12. Communication

The following contact persons are available to answer your questions or provide you with **more information**:

Stefan Sturm
Werner & Mertz GmbH & Co KG
Neualmerstraße 13
A-5400 Hallein

e-mail: S.Sturm@werner-mertz.com

Yannic von Raesfeld
Head of Sustainability Management
Werner & Mertz GmbH
Rheinallee 96
D-55120 Mainz

e-mail: YvonRaesfeld@werner-mertz.com

13. Validation

The Environmental Statement is updated every year.

The next consolidated Environmental Statement will be submitted for validation by 29 April 2026.

Contracted as environmental auditor/environmental audit organization:

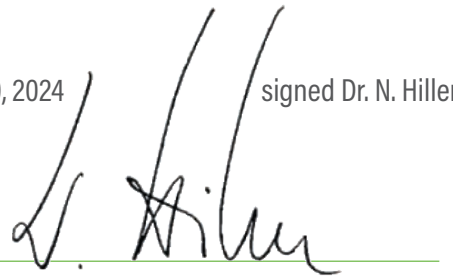
Dr. Ing. Norbert Hiller
(Registration Nr.: DV0021)
INTECHNICA Cert GmbH
(Registration Nr.: DV0279)
Ostendstr. 181, D90482 Nuremberg

14. Assurance Statement

With this Environmental Statement, we inform our employees, customers, the interested public and other stake-holders about the environmental performance of our company. We confirm the veracity of the information pre-sented and hereby release the Environmental Statement for publication. Management is responsible for the release of the environmental statement.

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 (EC) 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).

Nuremberg, May 10, 2024 signed Dr. N. Hiller



Dr.-Ing. Norbert Hiller
(Environmental auditor)