.hess
GROUPE RAGNI

Environmental Statement 2025

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EMAS
GEPRÜFTES
UMWELTMANAGEMENT
DE-169-00082

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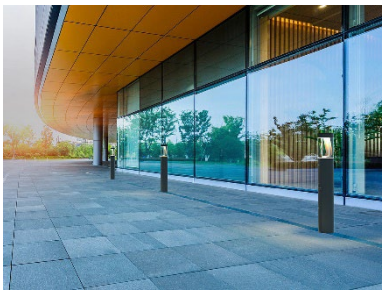
1. Hess GmbH Licht + Form

Thanks to an extremely varied range of luminaires, Hess is able to fulfil every lighting design requirement for outdoor public spaces and exterior illumination of objects and properties. High-quality site furnishings complete the product portfolio. The perfect combination of luminaires and site furnishings enables the realisation of holistic concepts for the design of urban and open spaces – also, and especially, with expressive and extraordinary special solutions.



As the world's first manufacturer of LED streetlights, Hess played a pioneering role in innovative LED outdoor lighting already in 2003.

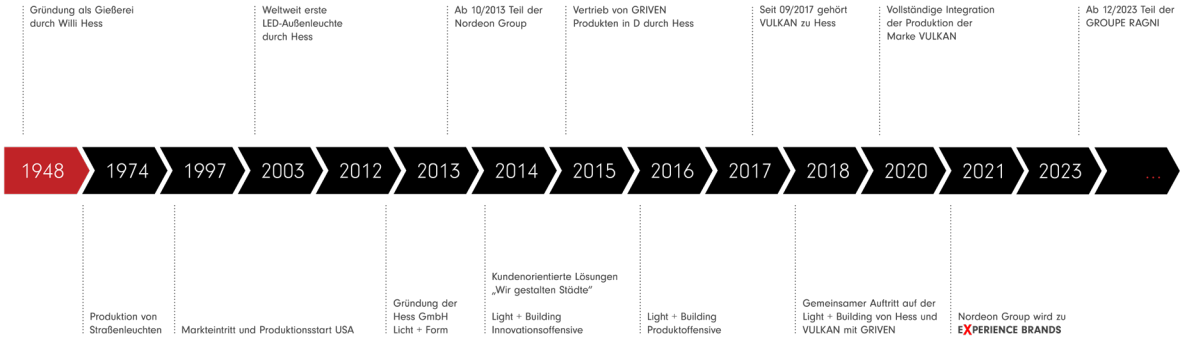
Hess offers a portfolio of innovative LED luminaires, which feature a unique design, modular LED technology and intelligent lighting management systems. The products are designed for the most demanding conditions – both in terms of design and smart, integrated technologies. In line with the company motto "Hess – Enhancing (smart) urban spaces", these fulfil the highest design and technological requirements.

Vulkan – A brand of Hess

Vulkan stands for products that are of premium quality in terms of engineering and are also highly efficient. Vulkan's roots go all the way back to the year 1898. This makes Vulkan one of the oldest brands in the lighting industry. Particularly within the German-speaking area, the company enjoys a very good reputation. Vulkan stands for luminaires that are the product of advanced engineering and that are offered at extremely attractive conditions. The combination of very high levels of energy-efficiency and long maintenance intervals result in very lucrative payback periods for Vulkan customers.

1.1 History

With the company founded as an industrial castings supplier in the Black Forest town of Villingen in 1948, today the entire Hess production, including development as well as special and custom production, is still located in Villingen. The administration, marketing, design, product management and lighting laboratory are also in Villingen. Since the end of 2023, Hess has been part of GROUPE RAGNI, a French family-owned company based in Cagnes-sur-Mer.



1.2 Structure

Hess GmbH Licht + Form in Villingen has been part of the French GROUPE RAGNI since 1 December 2023.

In Germany, 15 professional consultants currently provide competent project support and ensure good market penetration.

Hess exports to over 50 countries worldwide. The company enjoys a high level of recognition as well as an excellent reputation and is continuously expanding its international presence in cooperation with GROUPE RAGNI.

1.3 Location information

Hess in Villingen-Schwenningen is certified according to EMAS. The total surface area of the company premises is 11,967 m². The surface area kept as an undeveloped area is 799 m². 4308 m² has been built on and 6860 m² have been sealed, for a total of 11,168 m². The built-on and sealed/impervious surface area remains unchanged. No construction measures were taken in 2024.

Figure 1: *Hess GmbH Licht + Form, Lantwattenstraße 22, D-78050 Villingen-Schwenningen*

1.4 Our employees

The health of our employees is extremely important to us. For this reason, occupational health and safety are among our company's top priorities. We protect our employees from adverse health effects through comprehensive preventive measures. The ergonomic furnishing of our workplaces, both in production and in administration, ensures a healthy posture. The perfect arrangement of the keyboard and screen or the layout of the work equipment combined with the chairs and standing supports play a crucial role. Another focus is also on noise protection in production. By conducting regular inspections and updating the risk assessments, we ensure that potential weak points are recognised in good time before any injuries occur.

Vocational training at HESS:

- Construction mechanic (m/f/d)
- Cutting machine operator (m/f/d)
- Industrial clerk (m/f/d)
- Technical product designer (m/f/d)
- Warehouse logistics specialist (m/f/d)

117 Employees

Full-time and part-time positions

95 full-time

22 part-time

Average age

46 years

Length of service

Employees

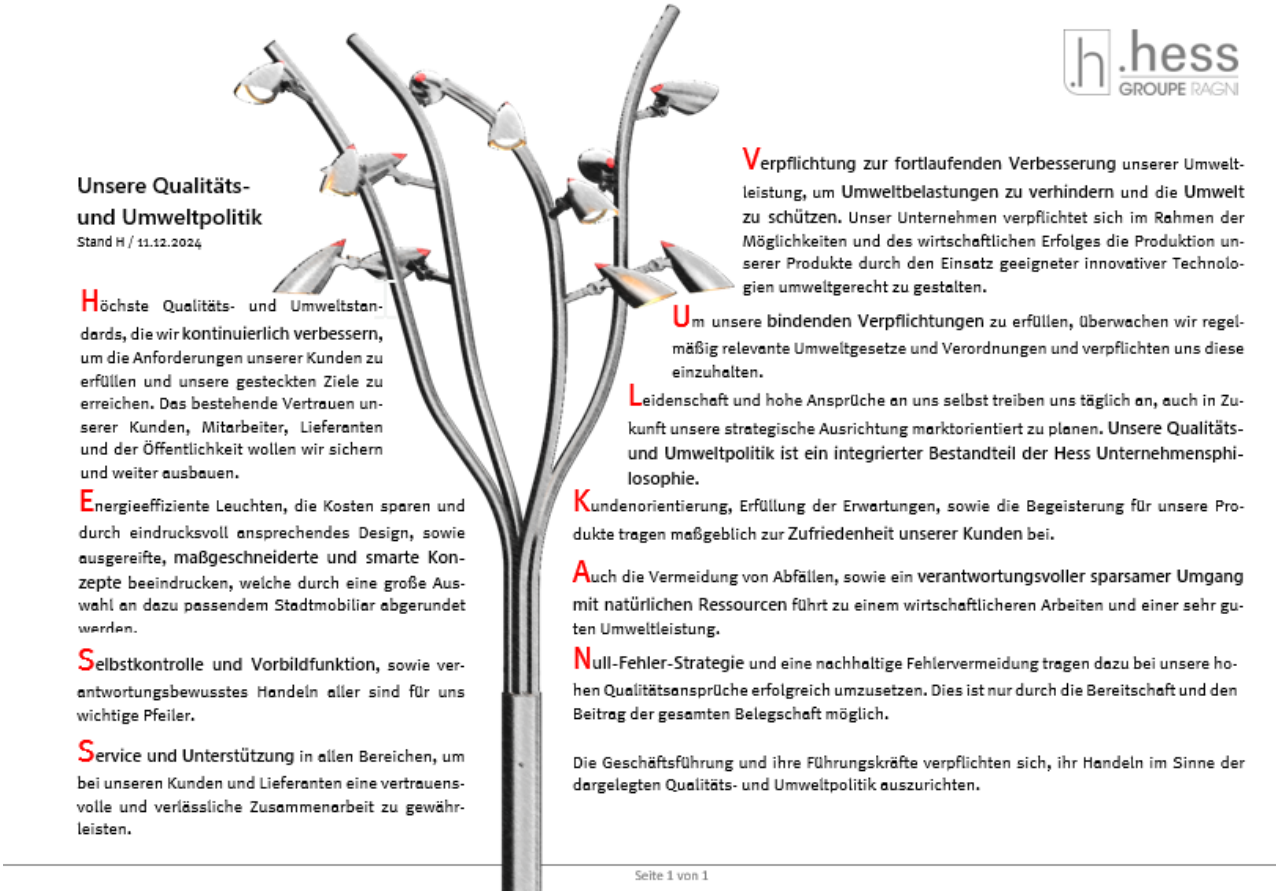
2. Corporate philosophy

2.1 Hess and our guiding principles

Wherever cities, municipalities and urban spaces are being designed and shaped today, Hess products are present. We are an established and at the same time up-and-coming medium-sized company. Our versatile product range enables custom design of public and urban spaces. In the lighting sector, our products range from pioneering, multifunctional and design-oriented LED luminaires to illuminating bollards and in-ground spotlights through to beautiful heritage lighting. In the design sector, we offer barrier as well as power and water bollards, park benches, drive-over tree grates and tree guards, planters, modern waste receptacles and a wide range of custom-made products.

The diversity of the products we offer demonstrates the customer focus of our company. We determine customer requirements as well as all relevant statutory and regulatory requirements. Fulfilling these requirements makes a significant contribution to increasing the level of our customers' satisfaction. With our many years of experience as well as our quality and environmental standards, we orient and align ourselves according to the needs of the market. To continue to achieve this, the quality and environmental policy has become an integral part of our corporate philosophy.

2.2 Our policy



Unsere Qualitäts- und Umweltpolitik
Stand H / 11.12.2024

Höchste Qualitäts- und Umweltstandards, die wir kontinuierlich verbessern, um die Anforderungen unserer Kunden zu erfüllen und unsere gesteckten Ziele zu erreichen. Das bestehende Vertrauen unserer Kunden, Mitarbeiter, Lieferanten und der Öffentlichkeit wollen wir sichern und weiter ausbauen.

Energieeffiziente Leuchten, die Kosten sparen und durch eindrucksvoll ansprechendes Design, sowie ausgereifte, maßgeschneiderte und smarte Konzepte beeindrucken, welche durch eine große Auswahl an dazu passendem Stadtmobiliar abgerundet werden.

Selbstkontrolle und Vorbildfunktion, sowie verantwortungsbewusstes Handeln aller sind für uns wichtige Pfeiler.

Service und Unterstützung in allen Bereichen, um bei unseren Kunden und Lieferanten eine vertrauensvolle und verlässliche Zusammenarbeit zu gewährleisten.

Verpflichtung zur fortlaufenden Verbesserung unserer Umweltleistung, um Umweltbelastungen zu verhindern und die Umwelt zu schützen. Unser Unternehmen verpflichtet sich im Rahmen der Möglichkeiten und des wirtschaftlichen Erfolges die Produktion unserer Produkte durch den Einsatz geeigneter innovativer Technologien umweltgerecht zu gestalten.

Um unsere bindenden Verpflichtungen zu erfüllen, überwachen wir regelmäßig relevante Umweltgesetze und Verordnungen und verpflichten uns diese einzuhalten.

Leidenschaft und hohe Ansprüche an uns selbst treiben uns täglich an, auch in Zukunft unsere strategische Ausrichtung marktorientiert zu planen. Unsere Qualitäts- und Umweltpolitik ist ein integrierter Bestandteil der Hess Unternehmensphilosophie.

Kundenorientierung, Erfüllung der Erwartungen, sowie die Begeisterung für unsere Produkte tragen maßgeblich zur Zufriedenheit unserer Kunden bei.

Auch die Vermeidung von Abfällen, sowie ein verantwortungsvoller sparsamer Umgang mit natürlichen Ressourcen führt zu einem wirtschaftlicheren Arbeiten und einer sehr guten Umweltleistung.

Null-Fehler-Strategie und eine nachhaltige Fehlervermeidung tragen dazu bei unsere hohen Qualitätsansprüche erfolgreich umzusetzen. Dies ist nur durch die Bereitschaft und den Beitrag der gesamten Belegschaft möglich.

Die Geschäftsführung und ihre Führungskräfte verpflichten sich, ihr Handeln im Sinne der dargelegten Qualitäts- und Umweltpolitik auszurichten.

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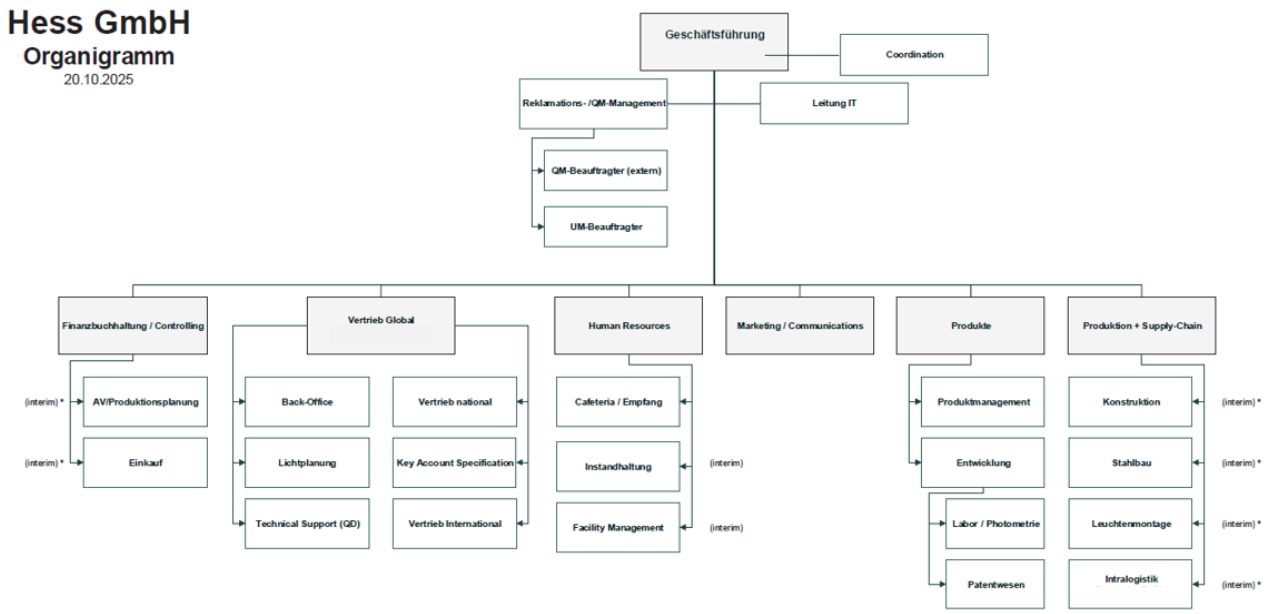
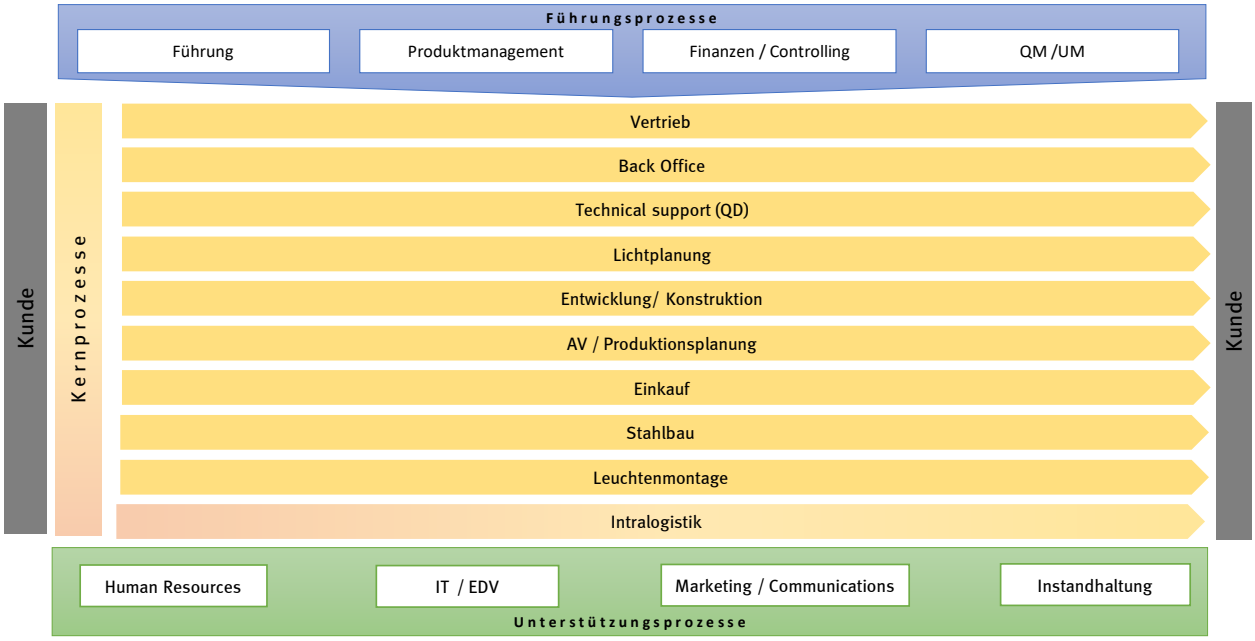
2.3 Structural organisation



The team and department heads as well as the designated representatives report directly to management. The department heads are directly responsible for the results within their area of responsibility, while the management representatives are responsible for the respective specialist areas across departments. The entire management system is evaluated at regular intervals as part of a management review. The topics of quality, the environment and occupational safety are coordinated across departments and checked for compliance with the relevant targets. The environmental officer is responsible for verifying the environmental performance and for compliance with the environmental programme, as well as for adapting the environmental management system to changing operational processes. Within the scope of environmental management, the various process owners at Hess are also responsible for compliance with environmental activities in the various processes at the site.
Hess regularly checks the legal conformity and regulatory developments in the environment sector and ensures that all relevant laws are complied with. This verification found that all relevant laws were complied with.

2.4 Processes

The development and production of LED luminaires, illuminating bollards, in-ground spotlights, barrier bollards, park benches and poles, among other things, require the processes described below.
All cast products are manufactured for us by suppliers, including products such as tree grates, planters and waste receptacles.



Production is broken down into two primary areas – steel construction and luminaire production.

Steel construction activities	Luminaire production activities
▪ CNC machining ▪ Grinding ▪ Welding ▪ Plasma torching ▪ Machining	▪ Assembly of electromechanical modules ▪ Adhesive work

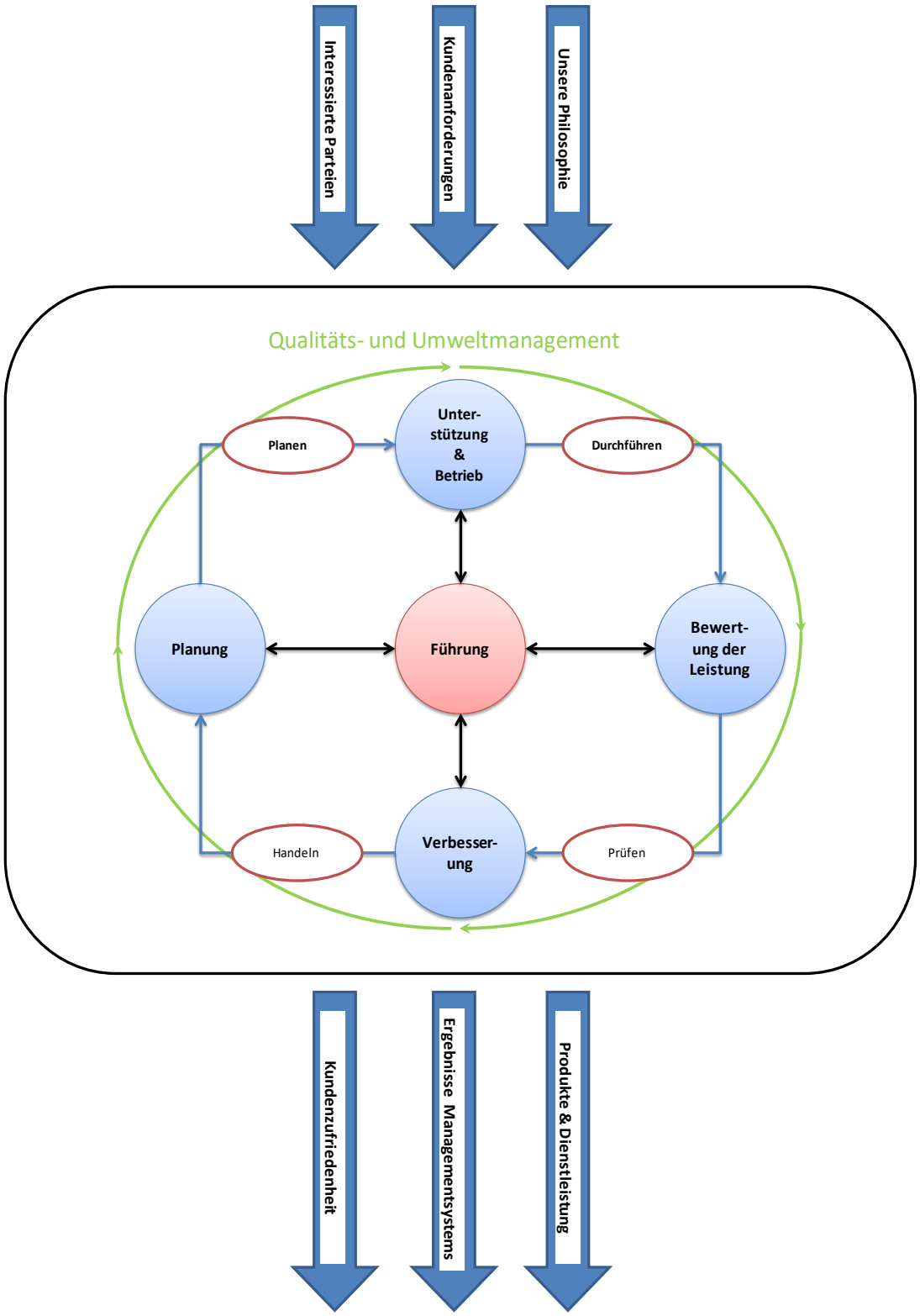
Plants, systems and equipment

The following plants, systems and equipment are available at the Villingen site:

- Gas heating
- Compressed air system
- Gluing workstation
- CNC machining centre
- Welding workstations
- Smoke extraction systems
- Air extraction
- Lifts
- System for recovering energy from waste heat
- Lathes and grinding benches
- Plasma torches
- Cranes

3. Our environmental management

Our Quality and Environmental Management department operationally implements our environmental management system. In the area of environmental and waste management, the company's management has appointed a Waste Management Officer who reports directly to the Managing Director.
Quality and environmental management are jointly documented in the Integrated Management System. The quality and environmental management system is influenced by our customers' requirements and our corporate philosophy as well as by the following stakeholders.


Interessierte Parteien
Kundenanforderungen
Unsere Philosophie
Qualitäts- und Umweltmanagement
Planen
Unter-stützung & Betrieb
Durchführen
Planung
Führung
Bewert-ung der Leistung
Handeln
Verbesser-ung
Prüfen
Kundenzufriedenheit
Ergebnisse Managementsystems
Produkte & Dienstleistung

4. Sustainability strategy

Last year, Hess developed a sustainability strategy to implement the environmental policy.

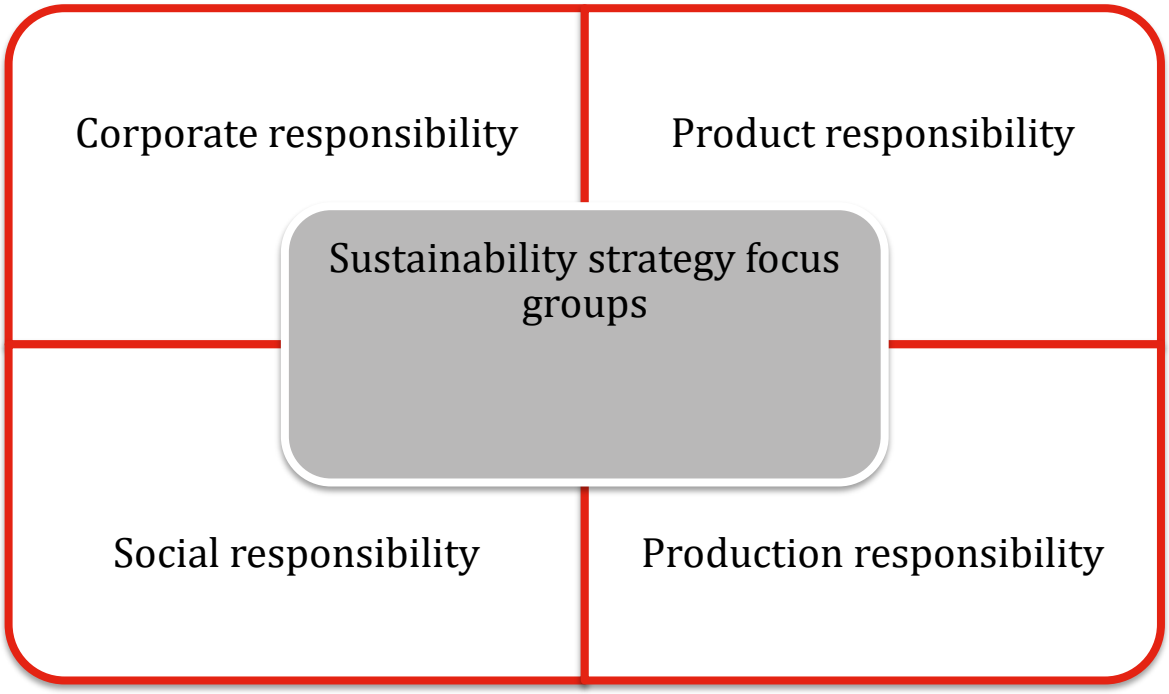
This was based on intensive dialogue with internal and external parties and the life cycle assessment.

Internally, contacts from the different divisions were therefore involved in the discussions.

Externally, the municipalities, communities and architects were consulted. This made it possible to draw on almost 85 years of expertise and experience. The aim of this survey was to identify the social, economic and environmental aspects of the company's business that are significant for Hess.

The most efficient levers were determined on the basis of the life cycle assessment.

It was therefore possible to develop an environmental programme that is specifically tailored to the company's needs and also takes the interests of the parties concerned into account. The results were divided into corresponding focus groups.



4.1 CORPORATE RESPONSIBILITY

In times of economic crises, trade tensions, wars and trouble spots, as well as cases of corruption and fraud, issues of trust on the part of the various stakeholder groups are becoming increasingly important for companies. To be able to operate credibly and transparently as a company, it is important to firstly identify any potential risks the business activity poses, secondly any that exist in the company environment, and to develop appropriate countermeasures.

Examples of measures already implemented:

- ✓ Supplier code setting out regulations and obligating suppliers to exercise care
- ✓ Ongoing evaluation of suppliers
- ✓ Maintaining environmental and quality management certifications
- ✓ Maintaining product certification
- ✓ Examination and confirmation of product claims by independent notified bodies
- ✓ Technology driver (world's first LED streetlight manufacturer)
- ✓ Compliance policy to prevent corruption, bullying, etc.

4.2 PRODUCT RESPONSIBILITY

This field of action describes how Hess takes responsibility at the product level. Target is to conserve resources and protect the environment. Hess therefore relies on competent partners in the region, uses almost exclusively materials from certified material manufacturers and avoids the use of potentially risky substances in products and packaging. In addition, Hess focuses on the durability and repairability of its products, the recyclability of the packaging and guarantees its partners and customers almost unlimited product transparency.

Examples of measures already implemented:

Internal

- ✓ Comprehensive environmental impact analysis
- ✓ Average service life of our products is over 30 years
- ✓ Extension of the service life through technology upgrades e.g. conventional lamp → LED
- ✓ Integration of new technologies for environmental protection (e.g. sensors for measuring air quality, intelligent luminaire control technology, new light spectra (warmer light colours) for species/insect protection)
- ✓ Use of recyclable or reusable product packaging
- ✓ Use of returnable packaging for intralogistics

External

- ✓ 90% of suppliers come from Germany
- ✓ Requesting and verifying that suppliers comply with Reach and RoHS
- ✓ Setting out regulations and obligating suppliers to exercise care

Further sustainable advantages of the Hess product lines at a glance

1. Benefit Our products combine functionality and aesthetics according to the Bauhaus philosophy “form follows function”. Technical challenges are implemented at the highest level of design. Lighting systems allow for maximum flexibility.	7. Benefit Modern electronic drivers are more efficient than in the past and their performance is also constant.
2. Benefit “Product families” create a uniform look through their compelling expression of design, blend into the landscape in many ways and ensure the harmonious design of urban space.	8. Benefit The quality of workmanship also has an effect on a luminaire’s service life, since, for example, the light intensity decreases if any dirt enters. That’s why we at Hess have always attached great importance to the quality of our luminaires.
3. Benefit The targeted lighting and illumination of architecture with efficient technology and attractive design creates art, cultural added value and enhances the urban space.	9. Benefit LED lighting is basically infinitely dimmable. Therefore, the luminaires can be adapted to the lighting requirement or the respective situation using intelligent control systems. For example, night-time dimming at different levels or lighting that adapts to the traffic conditions can maximise energy savings and protect the environment.
4. Benefit Thanks to the much higher efficiency and substantially longer maintenance intervals of the LEDs, significant energy savings can be achieved and (maintenance) costs considerably reduced. Retrofitting results in extremely attractive amortisation times.	10. Benefit Our dimming systems can be combined with various LED modules and luminaires and thus contribute to further savings in electricity and therefore carbon emissions.
5. Benefit Selecting the correct lamp not only determines the operating costs but also the subsequent costs. These are very low thanks to the long service life and maintenance intervals of LEDs.	11. Benefit In addition to energy savings and reduced light emissions, light beam image splitting leads to reduced glare and very uniform lighting.
6. Benefit Reduced light pollution means no illumination of the night sky and therefore less disturbance for nocturnal animals. Far fewer insects are attracted due to the low UV content in the light generated by LEDs. As a whole, this protects	12. Benefit Recycling materials conserves resources. In the spirit of sustainability, most of our products are reusable. Another clear bonus for the environment.

the animals and also significantly reduces soiling of the luminaires.

4.3 SOCIAL RESPONSIBILITY

As a medium-sized company, Hess is aware of its social responsibility. This means that Hess takes social aspects into account when making business decisions. Starting with the company itself, this field of action is initially aimed at its own employees. Hess' declared aim is to be perceived as an attractive employer across all relevant professional groups. Furthermore, the company is involved beyond the company itself and takes responsibility towards customers and society.

Examples of measures already implemented:

Internal:

- ✓ Successful employee retention
- ✓ Increased environmental awareness in the company through interdepartmental collaboration

External:

- ✓ Targeted marketing of new energy-saving systems and products
- ✓ Creation of a representative and progressive showcase to get municipalities, schools, and others, excited about sustainable products

4.4 PRODUCTION RESPONSIBILITY

For Hess, environmentally-friendly production means making the best use of all resources. Therefore, the company pays special attention to resource conservation and efficiency through continuous process and site improvement at its production site. The efficient use of energy and closed loop recycling management, as well as the conscious use of resources are at the top of the agenda for Hess. Our efforts are aimed at using materials and energy as efficiently as possible in order to minimise any

negative environmental impacts as part of our business activities and thus actively contribute to environmental protection.

Examples of measures already implemented:

- ✓ Use of modern machines and equipment
- ✓ New assembly stations
- ✓ Separation of waste by type for secondary raw material utilisation or appropriate disposal
- ✓ Switch to local waste disposal companies

5. Our environmental aspects

An environmental impact is any direct or indirect influence of activities and products on the environment, whether harmful or not. Both direct and indirect environmental impacts were recorded according to area. In determining the environmental impacts, factors that include the following direct and indirect environmental aspects were taken into consideration and evaluated.

5.1 Life cycle assessment

Life cycle	Extent		Capacity for it to be influenced by us or by the customer		Relevant
Product development	High	In the course of development, it is possible to control which materials are used.	High	We can specify which materials are used. The customer “only” has influence on the design and features of the luminaire.	Yes
Raw material extraction	High	The way the raw materials are extracted or refined. Aluminium is a particularly negative example here – due to the high energy input in its production.	Low	We can only exert control through the use of materials and try to steer customer requirements accordingly.	Yes, but secondary
Transport directly to us	Means	The distance, the type of packaging and the use of returnable load carriers influence the energy expenditure and cause exhaust emissions as well as possible disposal costs of the packaging material.	Means	(1) Common definition of what the packaging should look like. (2) Avoidance of unnecessary transport (3) Choosing suppliers who are close by, if qualified according to supplier evaluation.	Yes
Transport to suppliers	Means				
Transport from the supplier to us	Means				
Further processing at the supplier for finished module	Means	The crucial factors here are the energy input, the possible exhaust emissions and the quantity and type of auxiliary materials for production such as lubricants, compressed air, etc.	Low	In addition to the further development of the supplier’s QM system, we can potentially work towards the promotion of an environmental management system.	Yes, but secondary
Further processing at the supplier into a semi-finished module	Means				
Final assembly of finished modules	Means		High	(1) Avoidance of hazardous auxiliary materials in production (2) Avoidance of unnecessary work steps	Yes

Further processing of semi-finished modules	Means			(3) Active evaluation of the quantities of auxiliary materials to be used in production (4) Reuse of non-hazardous raw materials and auxiliary materials used in production takes precedence over legally compliant disposal (5) If non-hazardous raw materials cannot be reused, they must be recycled. (6) Hazardous auxiliary materials used in production must be disposed of in accordance with statutory requirements.	
Disposal of production waste	Means	The crucial factor is the amount of scrap (waste) as well as the proportion of not OK materials that need to be disposed of.			
Disposal of auxiliary materials used in production	Means	Which auxiliary materials are necessary in production? What risks are they associated with? What are the required quantities? Do I have to take structural measures for safe disposal?			
Packaging of the products	Means	How much and what packaging materials are used. Can these be disposed of by the customer? What is the cost of proper disposal?	High	(1) Choice of packaging material (2) Arrangements for disposal after use through contracts with waste disposal companies	Yes
Transport to the customer	Means	What distance needs to be travelled?	Low	We are active worldwide.	No
Operated by the customer	Low	How high is the luminaire's energy consumption? How high is the maintenance effort? What materials are needed for maintenance? (In normal operation)	Means	Operating instructions on how operation and maintenance should take place → Recommendations for optimal use.	Yes
Disposal of the product by the customer	Means	Are there arrangements for disposal at the customer's site? Can the customer dispose of everything according to the laws that apply to it?	Means	(1) This can be managed in Germany. (2) It is not possible to assure economic arrangements throughout the EU/worldwide.	Yes

5.2 Evaluation criteria

Crucial evaluation criteria are:

- Environmental risk
- Extent
- Influenceability

5.3 Significant environmental aspects

Energy & emissions

Energy consumption at the site is a significant environmental aspect. Machines and equipment in the production halls consume large amounts of electrical energy. However, the heat energy required for production processes and building heating also plays a major role. There are three burners at the Villingen-Schwenningen site. The combustion

Risk of environmental accidents

Possible risks in the company were identified using specific risk analyses. Generally, a fire is considered to be the most likely "incident". In the event that grinding or welding sparks start in the suction system or adjacent objects ignite, there is an extinguishing concept, fire safety officers, assistants and close coordination with the local fire brigade.

of gas generates emissions. These emissions are kept low thanks to modern burner technology. Compliance with the prescribed limit values is ensured through measurements.	Regular checks of emergency equipment are also carried out. First-aid instructions and emergency drills are also part of the fire and accident prevention measures.
Waste / recycling The main waste at the site is scrap metal and wood waste. An external service provider takes care of the disposal of waste generated at the Villingen-Schwenningen site. Plastic waste is also produced at the site in the form of packaging film and plastic packaging tapes. These are collected separately from one another and taken away by an external waste disposal company.	Use of resources and raw materials All the raw materials and auxiliaries used are recorded using information technology. In addition to the use of metal, packaging materials such as cardboard boxes and very thin plastic air pillows as well as adhesives and solvents are used in production. An up-to-date hazardous material register is available.
Local phenomena (noise, aesthetic impairments, etc.) There are no significant noise emissions outside the factory halls. However, noise must be regarded as a significant environmental aspect, as noise pollution is generated at the site during production due to the use of the machines. All employees are therefore provided with personal protective equipment, some of which are individually adapted. Up-to-date risk assessments for the factory halls are available.	Water / waste water In the context of production processes, water consumption plays a minor role at HESS. There is normal water consumption mainly by the sanitary facilities and cleaning activities at the site.

5.4 Direct environmental aspects

The following direct environmental aspects have been assessed, as there is a provable environmental hazard:

- Emissions into the atmosphere.
- Discharges and drainage into bodies of water.
- Generation, recycling, reuse, transport and disposal of solid and other wastes, especially hazardous wastes.
- Use of natural resources and raw materials (including energy).
- Use of additives and auxiliary materials as well as semi-finished products.
- Transport (freight).
- Risk of environmental accidents and environmental impacts arising or likely to arise from incidents, accidents and potential emergency situations.
- Impacts on biodiversity.

The following direct environmental aspects were not assessed, as there is no evidence of an environmental hazard for them:

- Use and contamination of soils.
- Local phenomena (noise, vibrations, odours, dust, aesthetic impairment, etc.).

The Hess headquarters was built as a prestigious production site. There is therefore no aesthetic impairment of our surroundings. Biodiversity is affected neither by our production, nor by our administrative activities nor by our internal plant traffic.

Assessment of the extent and ability to influence is provided in the following table:
The determination is based on whether it is relevant to our environmental performance. If it is relevant, it must be taken into account in the environmental programme.

Extent is high and can be influenced → relevant = yes
Extent is intermediate and can be influenced → relevant = yes

Extent is high and can be influenced only in part → relevant = yes
Extent is intermediate and can be influenced only in part → relevant = yes

Extent is low and can be influenced → relevant = yes, but secondary

Extent is low and can be influenced only in part → relevant = no
Extent is low and cannot be influenced → relevant = no

Direct environmental aspects	Extent		Influenceability		Relevant
Emissions into the atmosphere (greenhouse gas)	High	Largest proportion of emissions	Yes	Control of energy consumption	Yes
Emissions into the atmosphere (dust from freight)	Low	In relation to greenhouse gases	No	Cannot be influenced where our products are used worldwide.	No
Discharges and drainage into sewage system	Means	The water consumption per capita for our company is below the average in Germany	Yes	Influence from working from home. However, the effect is not that crucial, since we do not need any process water in production.	Yes
Generation, recycling, reuse, transport and disposal of solid and other wastes, especially hazardous waste	High	Approx. 50 % scrap metal, 25 % paper	Yes	Especially in the area of waste from packaging (from delivered goods) and the use of paper and cardboard.	Yes
Use of natural resources and raw materials, including energy	High	High proportion of renewable energy	Yes	Through savings in lighting and heating.	Yes
Use of raw materials, additives, auxiliary materials and semi-finished products	High	2024 total consumption: approx. 200 tonnes	Yes	Sensible handling and purchasing of materials.	Yes
Transport (in relation to goods and services)	Low	Since emissions from freight are not relevant compared to emissions from energy consumption.	Yes	Through the choice of suppliers and service providers	Yes, but secondary

Risk of environmental accidents and impacts arising or likely to arise from incidents, accidents and potential emergency situations.	Low	Highest risk is from leakage from trucks in the dispatch yard – has never happened! Fire on the premises – has never happened before.	Yes	Through emergency measures, such as spreading binder and binder barriers in the drains.	Yes, but secondary
Impacts on biodiversity	Low	Given the built-up and sealed/impervious surfaces.	No	The current production area is required for the necessary throughput.	No

5.5 Indirect environmental aspects

	Extent		Influenceability		Relevant
Design and development Composition of the product range	High	Through the use of LEDs, our customers can cut their emissions in half. The light spectrum of LEDs has far fewer detrimental effects on nocturnal insects. This also reduces the use of cleaning agents for outdoor illumination.	Yes	Through: Exclusive development of new LED luminaires. Discontinuation of all existing products that cannot be further developed in the direction of LEDs. Continuous implementation of new LED generations.	
New markets	High	Through further developments in the area of LEDs and sensible networking with sensor technology to reduce energy consumption even further.	Yes	It is closely linked to design and development.	Yes*)
Packaging	High	The effort required for disposal of packaging from our suppliers' products/materials is substantial.	Yes	Selection of environmentally friendly and disposable packaging materials and its reduction to a necessary maximum.	Yes
Transport	Low	To some extent we are bound to certain forwarding agents due to products that are sometimes quite bulky. This also applies to the products/materials from our suppliers. This does not make them any less bulky.	Yes	Sensible bundling of freight in order to use as little transport space as possible so that its impact on the environment through emissions can be reduced.	Yes, but secondary
Use and reuse	Low	The reuse of used packaging material is only possible to a very limited extent and hardly ever happens.	No	Due to aesthetic and hygienic reasons, the reuse of packaging materials is only possible to a limited extent.	No

Environmental performance and behaviour of suppliers Disposal of waste	Means	The materials and products we purchase may require disposal that is environmentally critical (e.g. paint production). Waste from the production of our products may also have an impact on the environment.	Yes	In the area of supplier loyalty, accelerate sustainability requirements.	Yes

*) Since 2014, we have only relied on new developments with LED technology. The combination with sensor technology and control options to reduce the energy consumption of LED outdoor lighting is possible in a standardised way for many products.

6. Environmental objectives

Our environmental objectives are set out in an ongoing environmental programme. This programme is monitored, controlled and further developed through the management evaluation.

The decisive factor in the choice of environmental objectives is the assessment of direct and indirect environmental aspects.

Table 1: Environmental objectives

Target	Indicator (actual values)			Target values		Result	Justification
	2022	2023	2024	2024	2025	2024	2024
Reduction of energy consumption (and greenhouse gases) *Total energy* *Unit:* MWh/ThMA	12.5	10.1	9.6	10.4	10.3	Target achieved	
Reduction in waste generation (hazardous waste) *Total waste* *Unit:* t / ThMA	0.55	0.42	0.43	0.45	0.44	Target achieved	
Reduction in fuel consumption *Fuel consumption* *Unit:* MWh/ThMA	3.45	2.57	2.32	2.45	2.3	Target achieved	

*Reference value: "**ThMA** = per 1,000 hours worked by all employees"*

We were able to realise all planned targets in 2024.

The following priorities were defined to achieve the 2025 target:

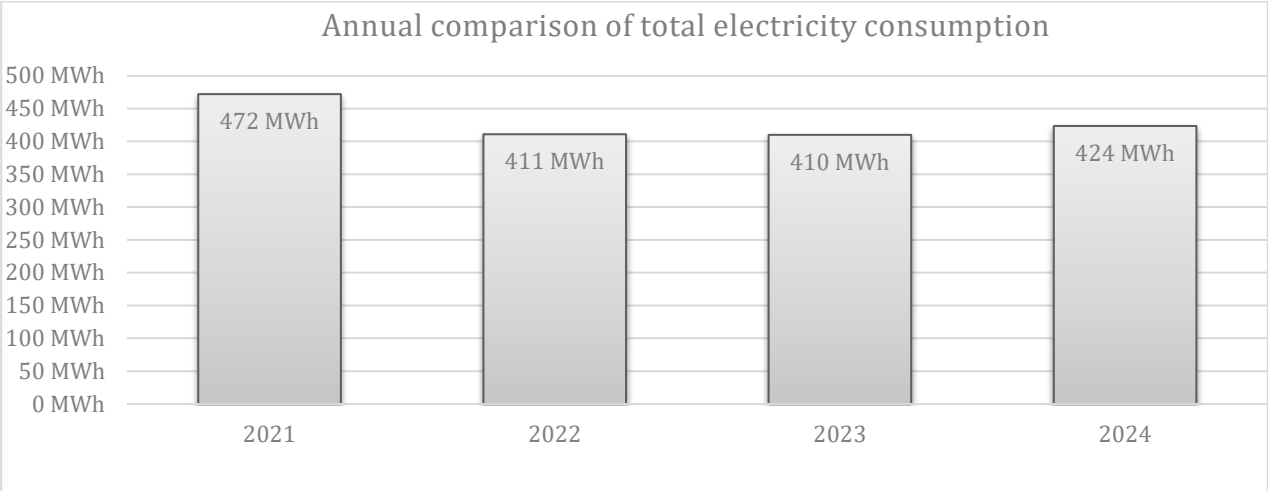
- ✓ Optimisation of waste separation through training and improved collection systems
- ✓ Reduction of internal waste through process optimisation
- ✓ Expansion of the electric and hybrid vehicle fleet to reduce CO_2 emissions
- ✓ Increasing the share of renewable energies in the electricity mix
- ✓ Replacement/renewal of the heating (dark radiators) in the halls

7. Annual environmental data and facts

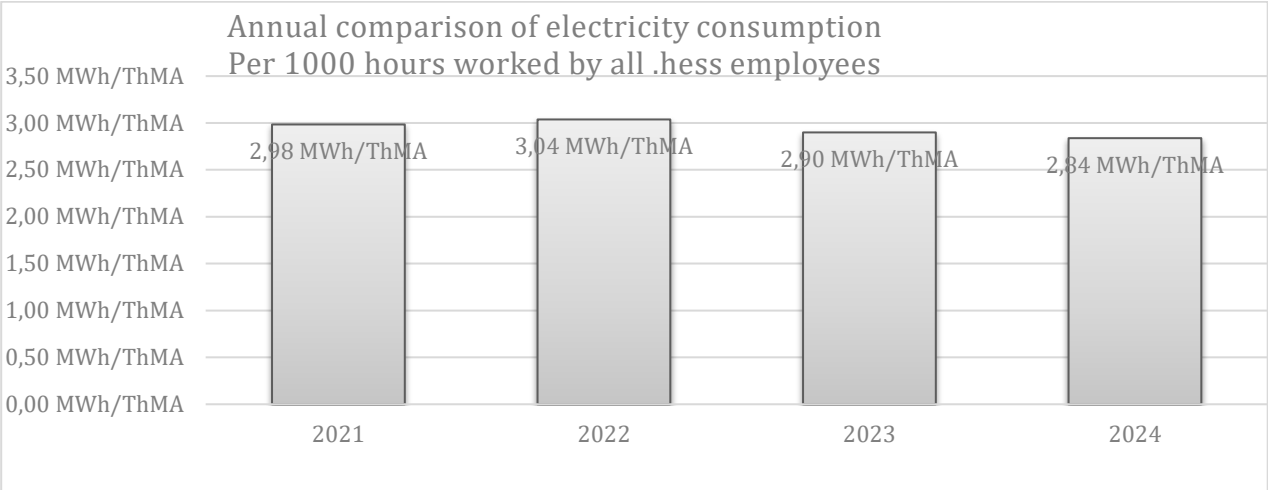
Reference value:
The reference value used is "per 1,000 hours worked by all employees". This is abbreviated as "***ThMA***" in all of the following tables (The differences, compared with the reference years, are due to the reduction in the number of employees/employee hours)

Year	2021	2022	2023	2024
Th MA	158	135	141	149

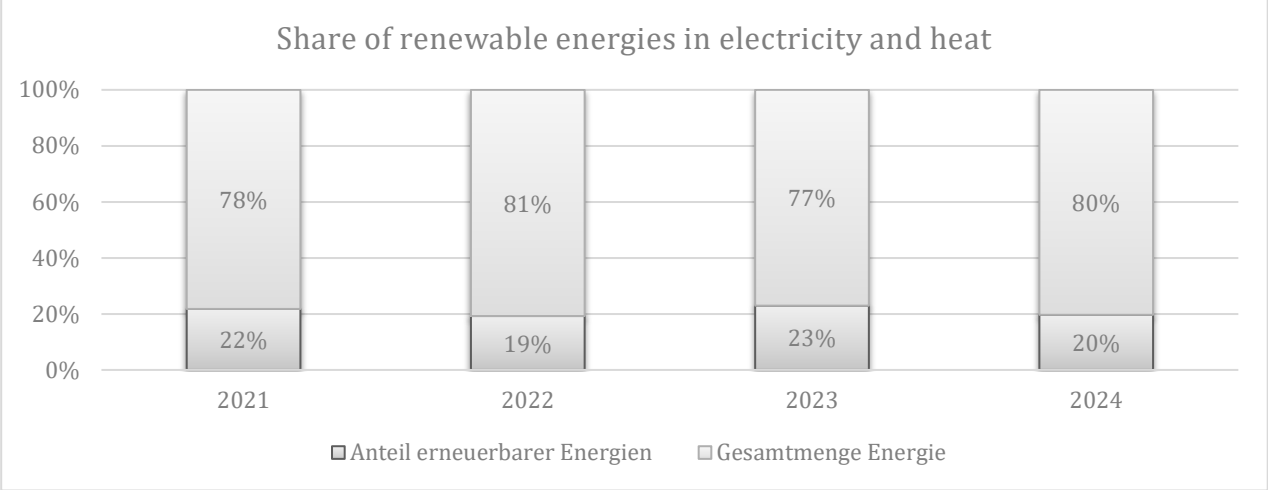
7.1 Energy



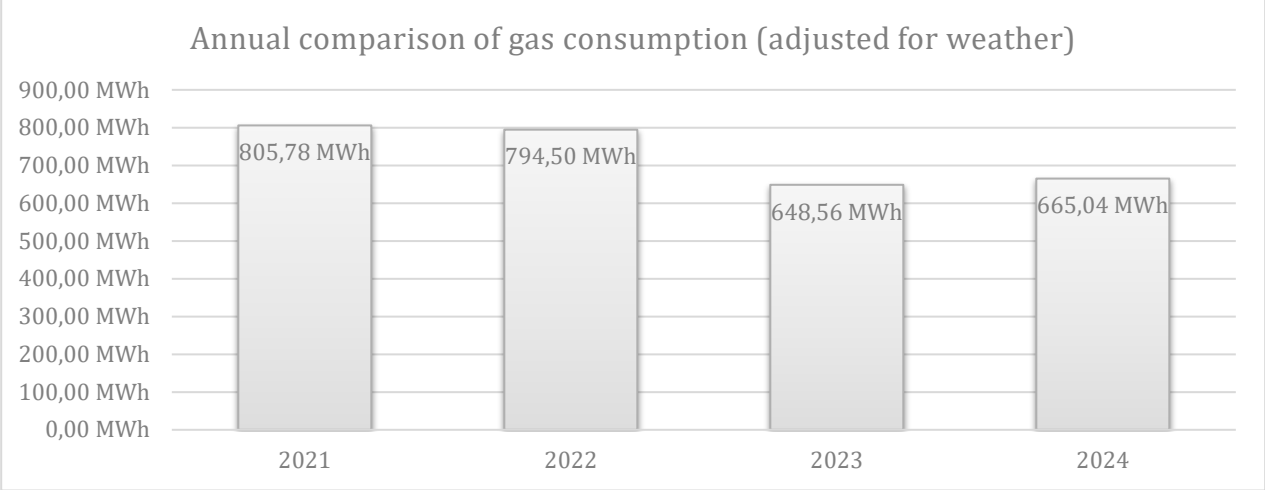
Conclusion:
The slight increase in electricity consumption is mainly due to two factors: the increased number of electrically powered company vehicles, which are regularly charged on site, and the extended scene and outdoor lighting on the company premises. Both aspects lead to additional energy requirements and explain the current slightly negative trend in consumption statistics.



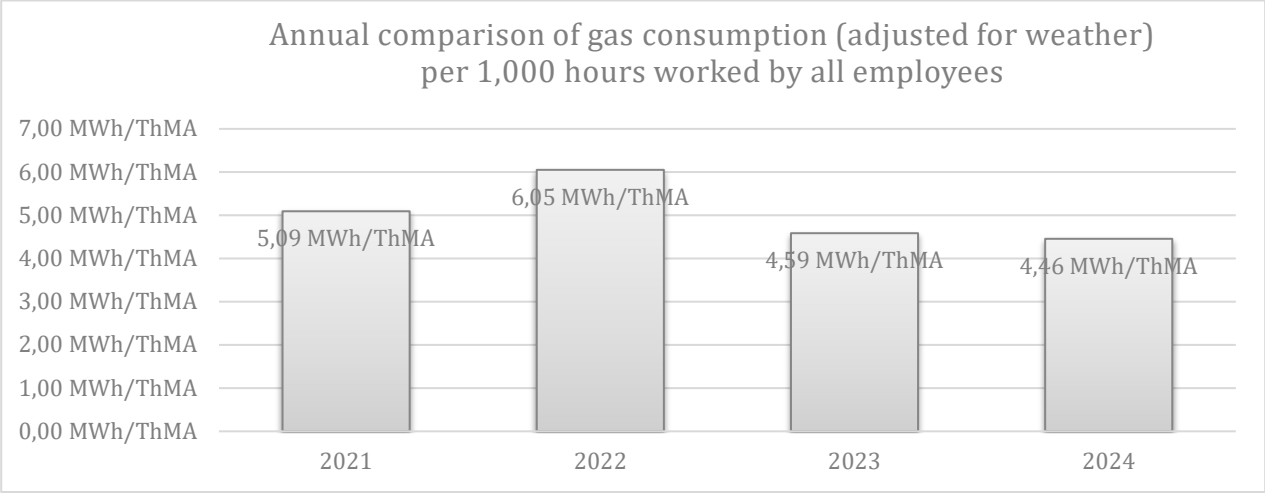
Conclusion:
Slightly positive trend



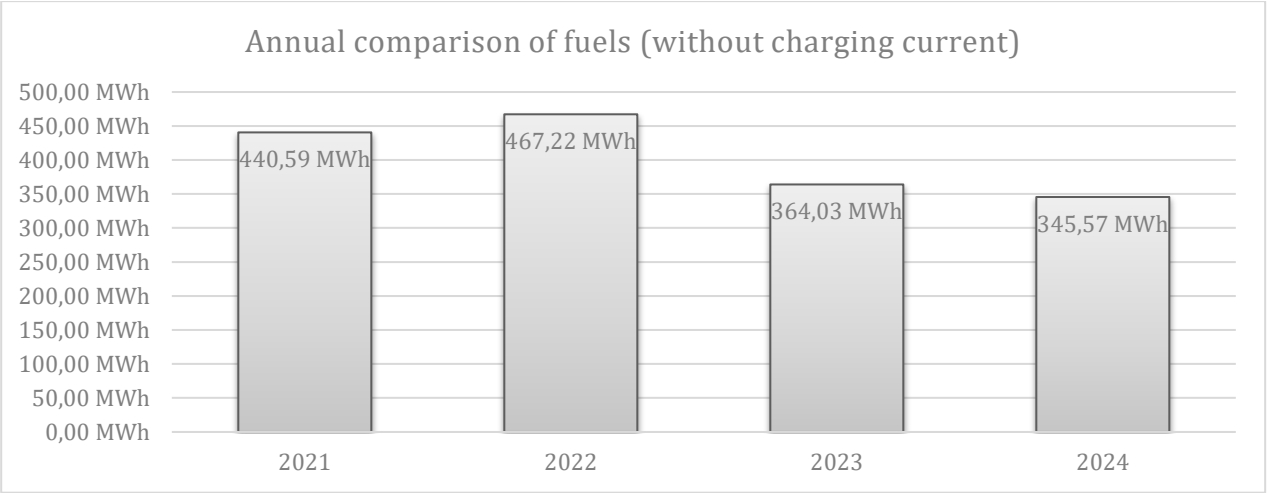
Conclusion:
The slight decrease in the share of renewable energies is due to the fact that the electricity mix used remained unchanged, compared to the previous year and no additional measures were implemented to increase the share of renewable energies.



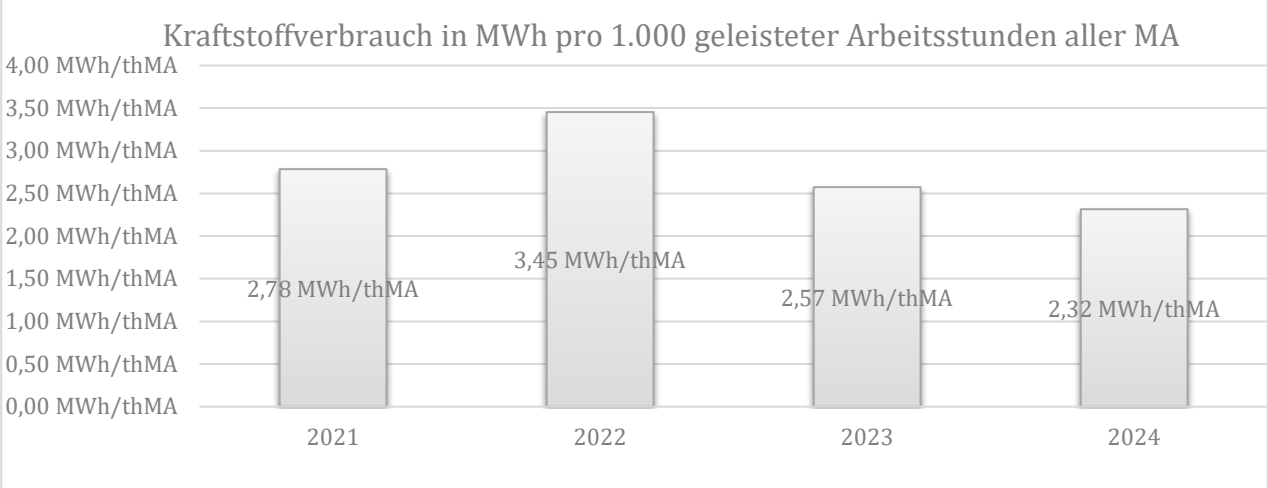
Conclusion:
Despite weather-adjusted analyses and lower water consumption, gas consumption increased slightly. This is due to higher heating requirements as a result of longer operating hours and more intensive use of the buildings.



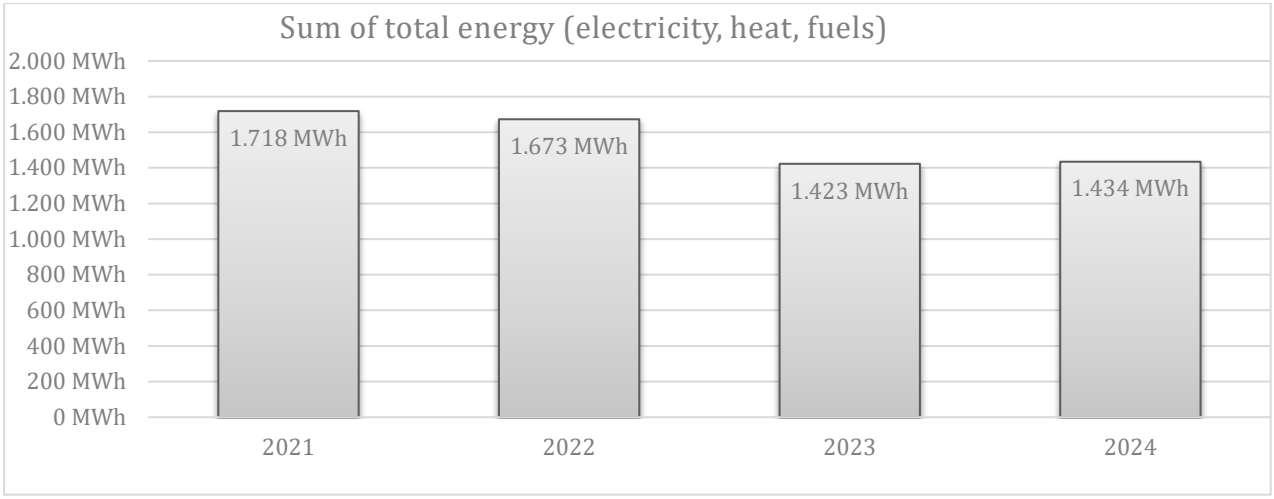
Conclusion:
Positive trend



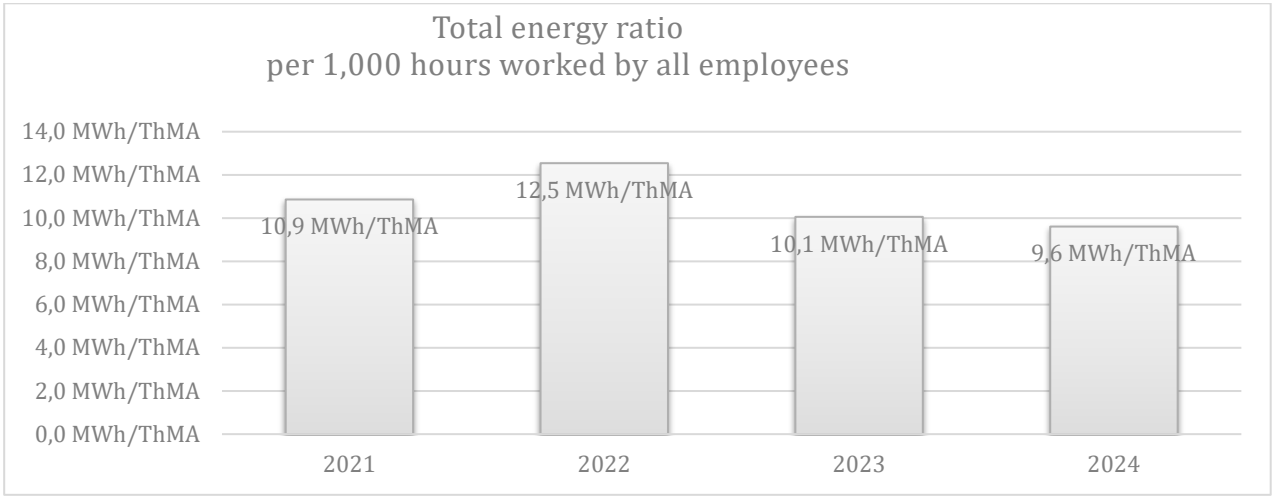
Conclusion:
Positive trend due, among other things, to less travelling and the switch to electric or hybrid vehicles.



Conclusion:
Positive trend due, among other things, to less travelling and the switch to electric or hybrid vehicles.



Conclusion:
The increased production capacity utilisation shows a slightly negative trend, but this is related to the increased production output.

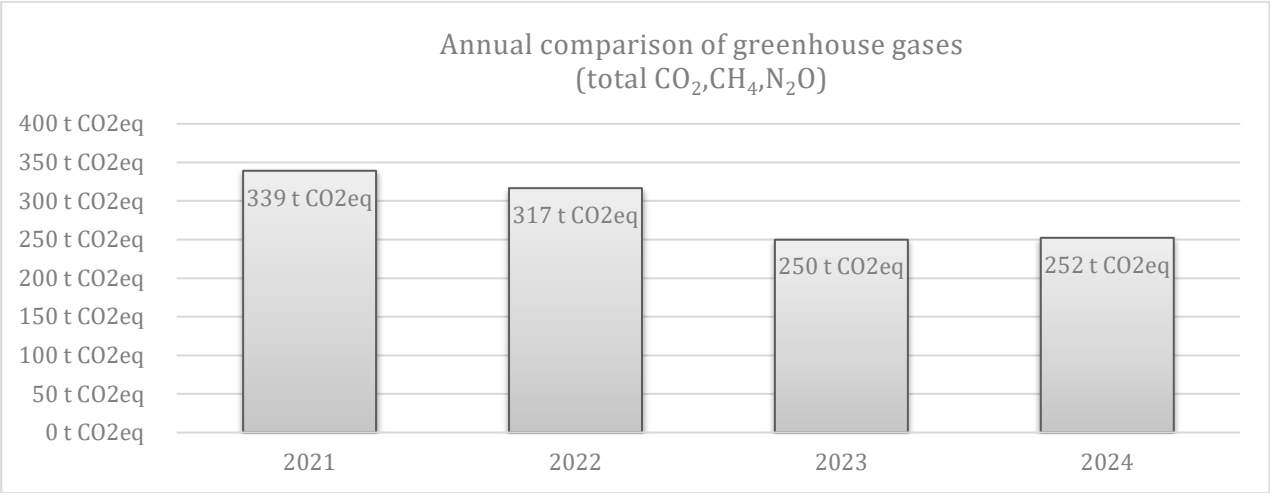


Conclusion:
Positive trend

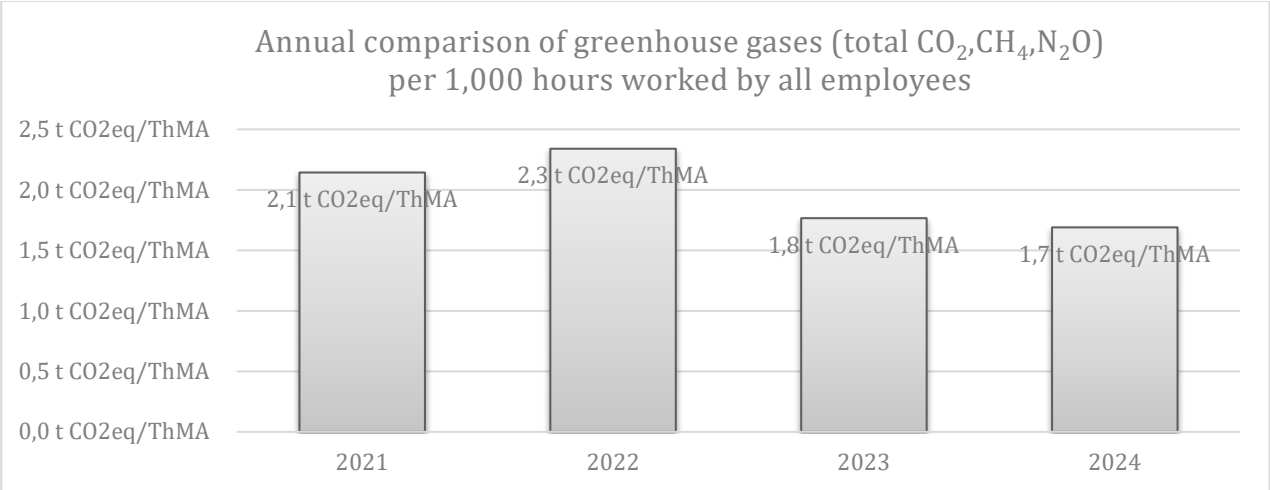
7.2 Emissions

Our gas heating systems are subject to Germany's Small and Medium-Sized Combustion Plant Ordinance (1. BImSchV [Federal Emission Control Ordinance]). Compliance with the limit values is regularly checked by the chimney sweep. The last inspections (July 2025 KÜO [Sweeping and Inspection Regulations], 01/01/2022 1. BImSchV) did not reveal any shortcomings. The waste heat from the air compressor is used to heat the main building.

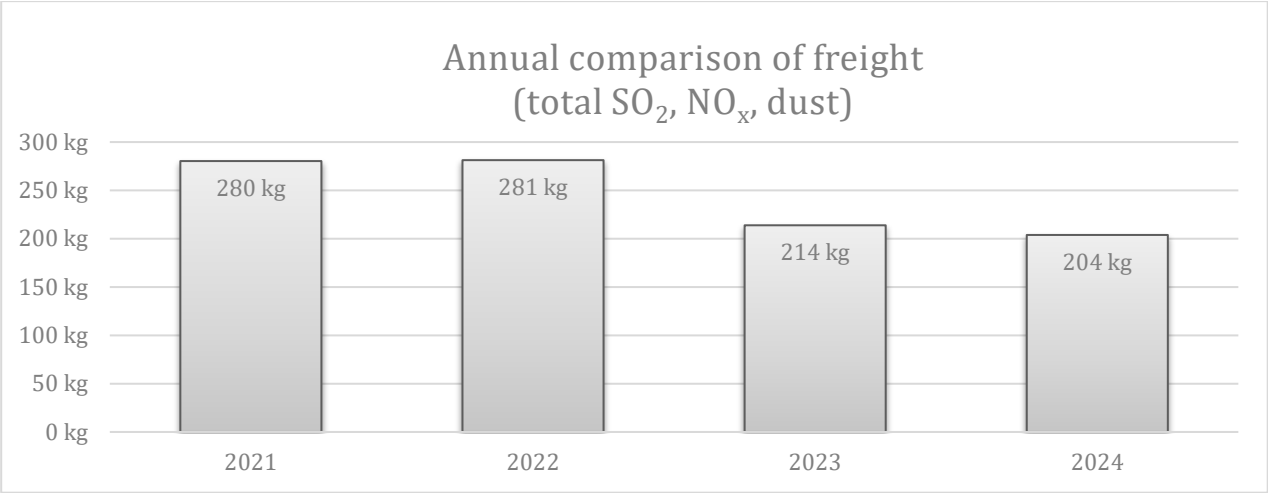
7.3 Total emissions from freight and greenhouse gases (indicator)



Conclusion:
Stagnation



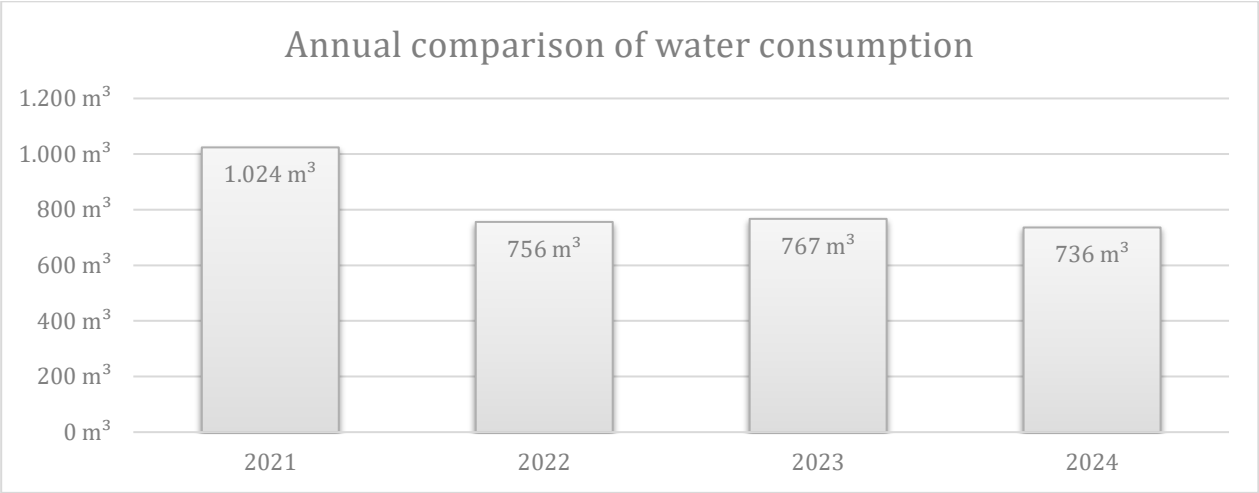
Conclusion:
Positive trend



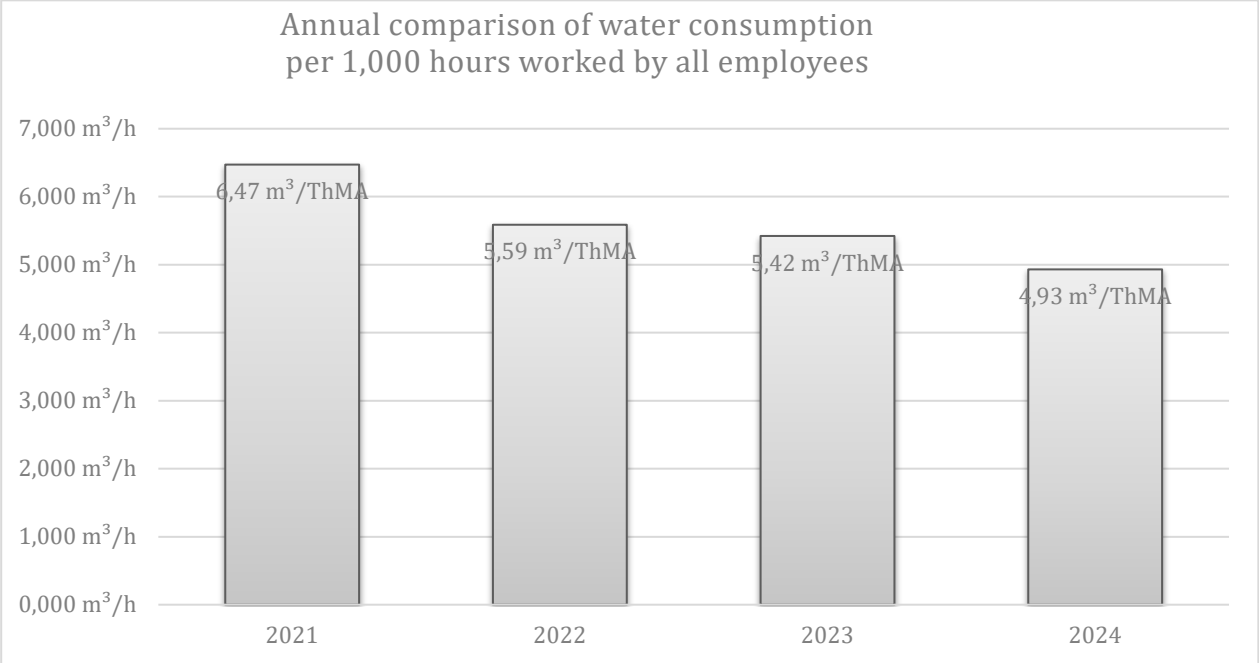
Conclusion:
Positive trend

Conclusion:
Positive trend

7.4 Water consumption

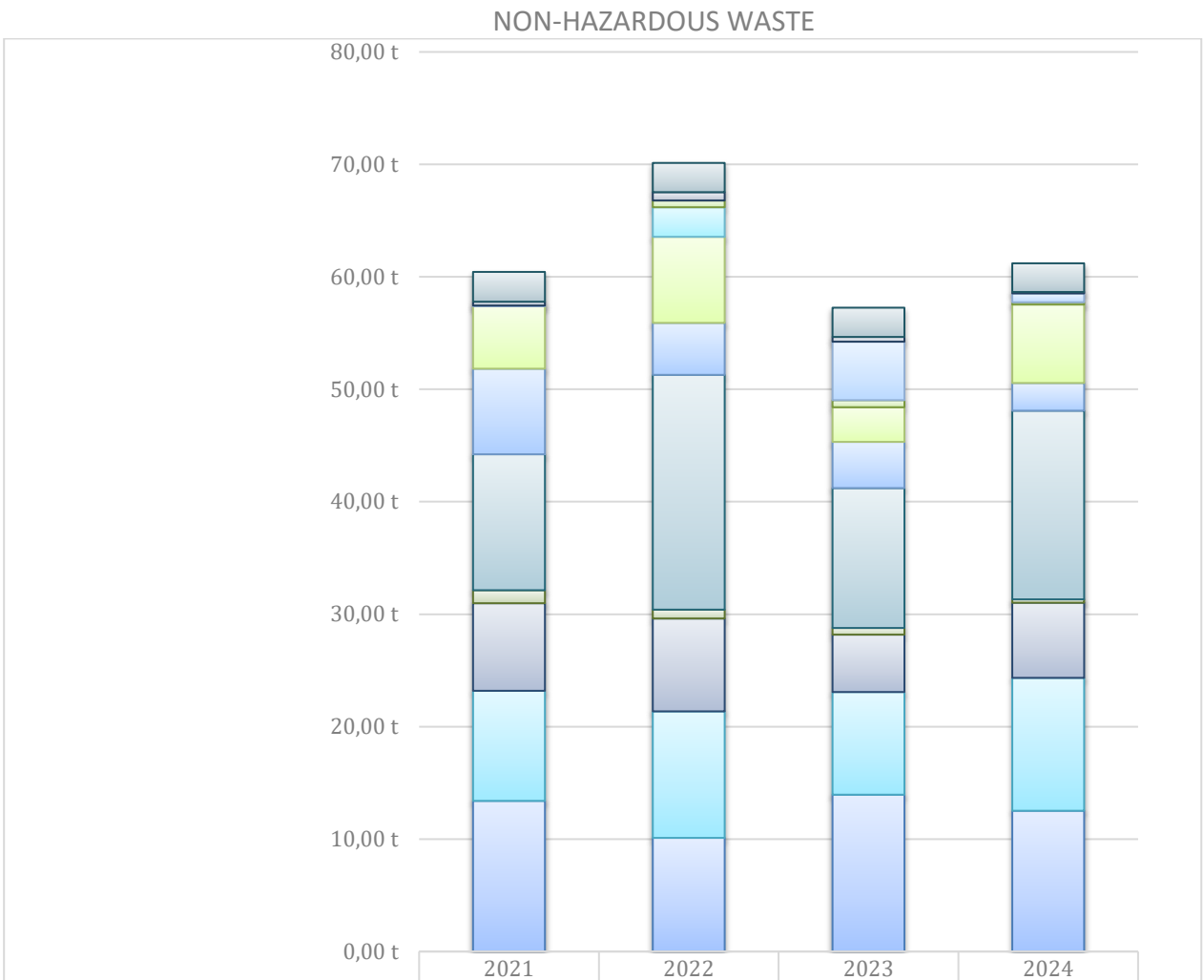


Conclusion:
Positive trend



Conclusion:
Positive trend

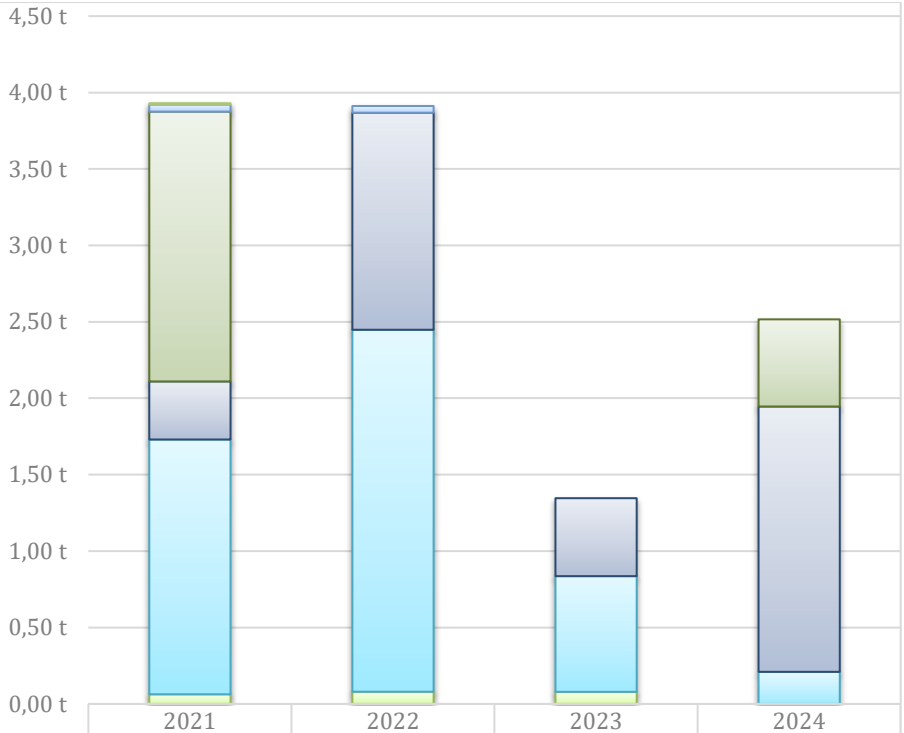
7.5 Waste



	2021	2022	2023	2024
Biomüll (AVV 20 01 08)	2,65 t	2,60 t	2,60 t	2,55 t
Glas (AVV 17 02 02 + AVV 15 01 07)	0,34 t	0,74 t	0,42 t	0,13 t
Aktenentsorgung (AVV 20 01 01)	0,07 t	0,00 t	5,20 t	0,79 t
Edelstahl V2A/V4A (AVV 12 01 04)	0,00 t	0,60 t	0,63 t	0,20 t
Alu-Guß (AVV 12 01 04)	0,00 t	2,63 t	0,00 t	0,00 t
NE-Metallstaub - u. teilchen / Aluabfall (AVV 12 01 04)	5,55 t	7,65 t	3,08 t	6,98 t
NE-Metallfrei- u. drehspäne / Aluspäne (AVV 12 01 03)	7,61 t	4,62 t	4,11 t	2,46 t
Eisenstaub u. -teile / Mischschrott (AVV 12 01 02)	12,09 t	20,88 t	12,44 t	16,78 t
PE-Folie, bunt (AVV 15 01 02)	1,16 t	0,79 t	0,59 t	0,30 t
gemischte Siedlungsabfälle / Restmüll (AVV 20 03 01)	7,79 t	8,26 t	5,10 t	6,68 t
Holz A I/II (AVV 15 01 03)	9,79 t	11,25 t	9,13 t	11,82 t
Altpapier/Kartonagen (AVV 15 01 01)	13,40 t	10,11 t	13,95 t	12,52 t

Conclusion:
The slightly negative trend is due to the disposal of material that is recyclable, which was disposed of in the course of a necessary clean-up of old stocks.

HAZARDOUS WASTE



	2021	2022	2023	2024
Altöl (AVV 13 02 05*)	0,00 t			
Lösemittel (AVV 07 01 04*)	0,01 t	0,00 t	0,00 t	0,00 t
Klebstoff-und Dichtmassenabfälle (AVV 08 04 09*)	0,05 t	0,04 t	0,00 t	0,00 t
wässrige Waschflüssigkeit (AVV 12 03 01*)	1,77 t	0,00 t	0,00 t	0,57 t
halogenfreie Bearbeitungsemulsionen und -lösungen (AVV 12 01 09*)	0,38 t	1,42 t	0,51 t	1,74 t
E-Schrott (AVV 20 01 35*)	1,67 t	2,37 t	0,76 t	0,21 t
Druckgasverpackung f.Spraydosen (AVV 15 01 10*)	0,06 t	0,08 t	0,08 t	0,00 t
Holz A IV (AVV 17 02 04*)	0,00 t	0,00 t	0,00 t	0,00 t

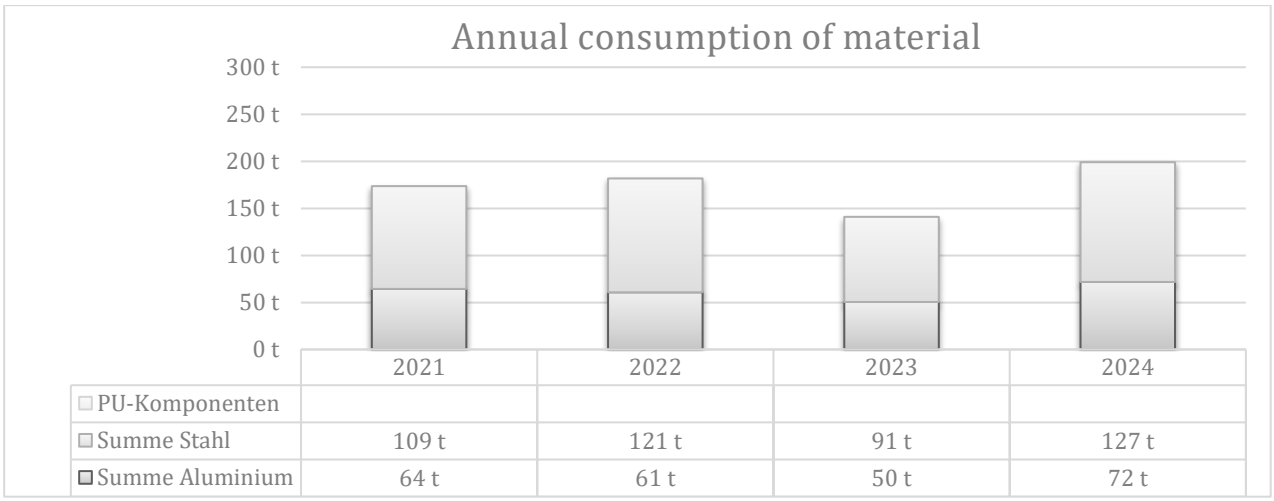
Conclusion:
Hazardous waste is only produced in small quantities overall. Due to the irregular occurrence, the annual quantities can fluctuate considerably and developments are difficult to assess.

	2021	2022	2023	2024
SUMME gefährliche Abfälle	4,18 t	4,10 t	1,55 t	2,53 t
SUMME nicht gefährliche Abfälle	62,28 t	70,29 t	57,26 t	61,21 t

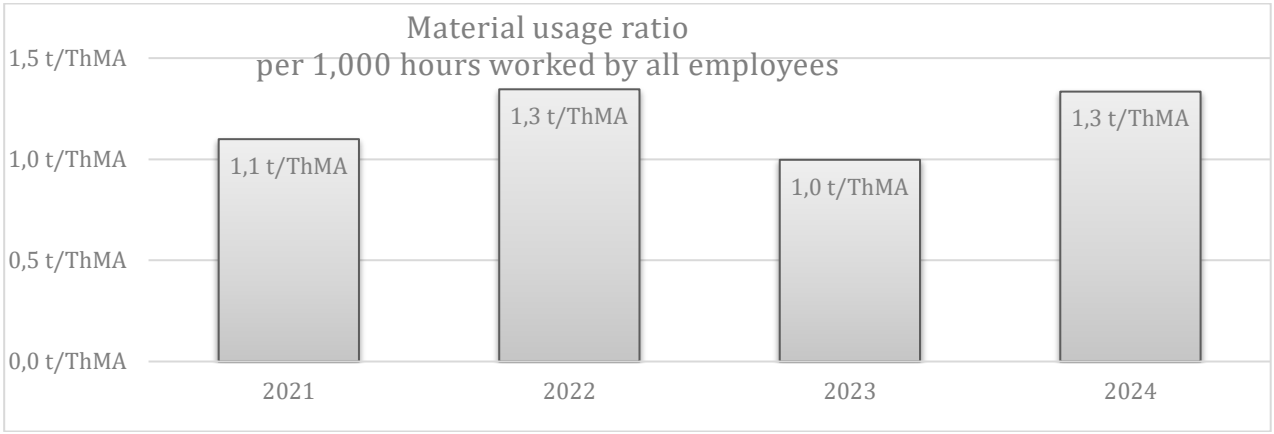
Conclusion:
The increase in the total amount of waste is due to the scheduled replacement of the processing emulsion every two years and a one-off disposal programme for recyclable old stock.

Conclusion:
Due to the regular replacement of the processing emulsion every two years and the disposal of recyclable materials as part of a necessary clean-up of old stocks, the ratio of the total amount of waste per 1,000 hours worked by all employees has deteriorated.

7.6 Total material consumption (indicator)



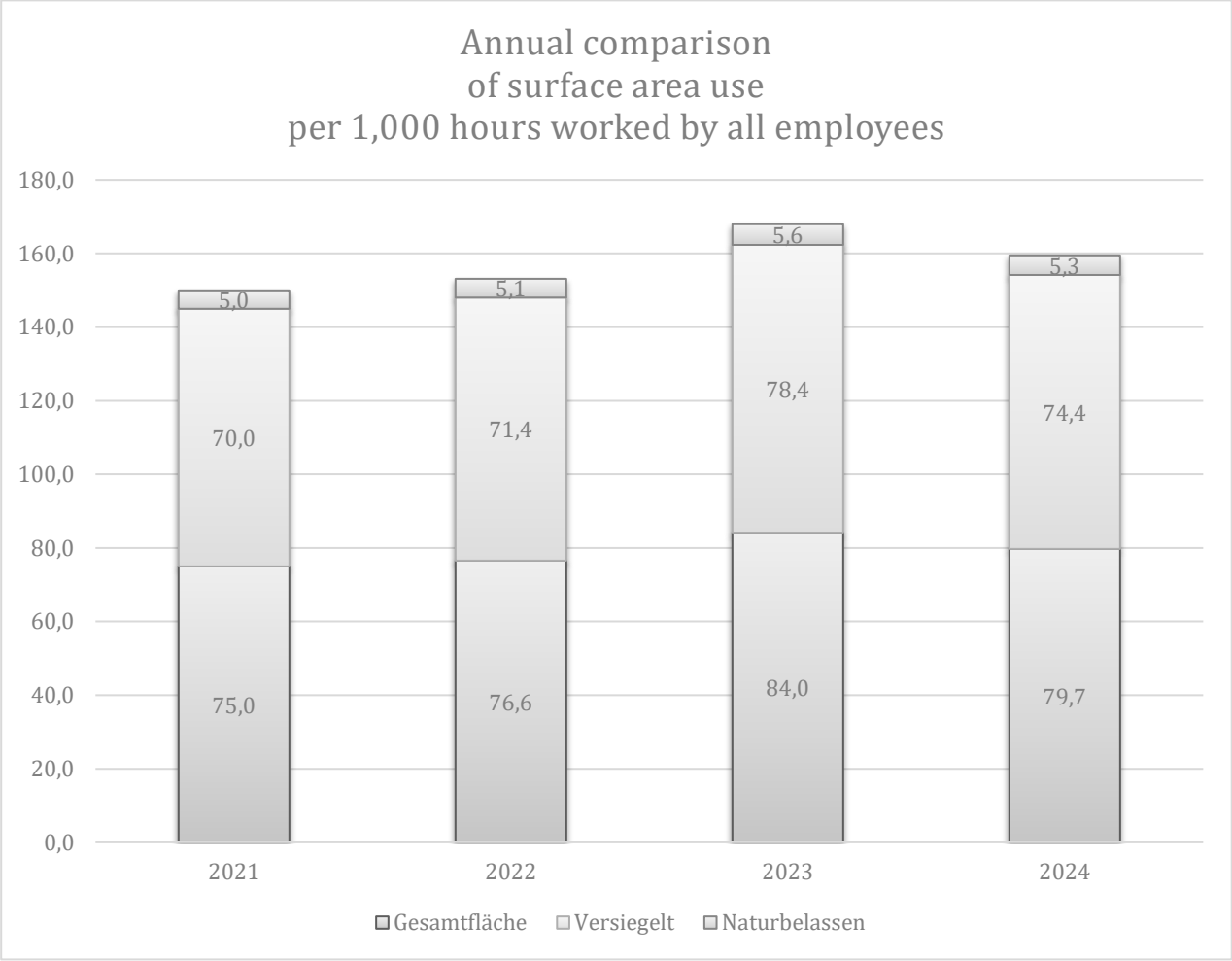
Conclusion:
Material consumption has increased as a result of the higher production volume.



Conclusion:
Material consumption per 1,000 hours worked by all employees
has increased as a result of the higher production volume.

7.7 Surface area use

- Total surface area 11,967 m²
- Sealed/impervious surface area 11,168 m²
- Undeveloped surface area 799 m²



Conclusion:
Slightly positive trend

8. Significant environmental requirements and their implementation

The following legal regulations relevant to us influence our operational processes and ultimately our obligation to ensure that products can be disposed of in an environmentally sound manner at the end of their product life cycle:

- **Germany's Hazardous Substances Ordinance (GefStoffV)**

  Hazardous Substances Ordinance for protection against hazardous substances. Implementation of the resulting obligations was ensured by recording, creating and implementing the following items:

  - ✓ Register of hazardous substances
  - ✓ Risk assessments
  - ✓ Operating instructions
  - ✓ Safety data sheets
  - ✓ Regular briefings and training

- **1. Germany's Emission Control Ordinance (BImSchV)**

  Small and Medium-Sized Combustion Plant Ordinance – First Ordinance on the Implementation of the Federal Emission Control Act:

  - ✓ The flue gas losses specified in the ordinance may not be exceeded by our gas-firing systems. The chimney sweep uses recurring checks and measurements to ensure that prescribed limit values are complied with.

- **Germany's Regulation Concerning Fluorinated Greenhouse Gases (F-Gase-V)**

  The fluorinated gases used as refrigerants in many air-conditioning and refrigeration systems are to be minimised.

  - ✓ In our company, there are 6 air-conditioning systems that exceed 5 tonnes of CO_2 equivalent. These are subjected to an annual leak test conducted by licensed companies. All tests are documented.
  - ✓ No deviations from the permissible values could be detected.

- **Germany's Commercial Waste Ordinance (GewAbfV)**

  Ordinance on the Management of Commercial Municipal Waste and of Certain Construction and Demolition Waste (Commercial Waste Ordinance):

  - ✓ All types of waste and their disposal-relevant information are listed in our waste route plan, which is accessible to all employees.
  - ✓ The waste we generate is collected separately and prepared for reuse and recycling where appropriate.
  - ✓ Municipal solid waste is pre-treated by our waste management companies in accordance with the regulations. The confirmations in accordance with Section 3 (3) No. 2 GewAbfV and Section 6 (1) GewAbfV are available.
  - ✓ The documentation is always kept up to date.

- **REACH and RoHS**

  The aim of the Restriction on Hazardous Substances (RoHS) Directive is to protect human health and the environment. This includes environmentally sound recycling and disposal of waste electrical and electronic equipment.
  The chemicals regulation REACH relates to the registration, evaluation, authorisation and restriction of chemicals.

  - ✓ REACH and RoHS affect us in the procurement and use of substances in production.
  - ✓ Implementation of the specifications is rooted in development.
  - ✓ We only use substances that include all pertinent REACH information on the safety data sheet.
  - ✓ Our suppliers are obliged to comply with the REACH and RoHS directives.
  - ✓ We ensure that our products are marked with type plates that make it easy to identify them.
  - ✓ Procedures are in place to ensure the conformity of our products.
  - ✓ Registration in the EAR [German Electrical Used Equipment Register]

- **Ecodesign Directive**

  The objective of the directive is to improve the environmental performance of products in regard to energy consumption, taking into account the entire product journey, by specifying ecodesign requirements.

  - ✓ We adhere to the objectives of the Ecodesign Directive.
  - ✓ The Ecodesign Directive affects the new development as well as the further development of our products. As a result, all new and further developed luminaires are now fitted with LEDs only, thereby achieving significant energy savings.
  - ✓ In addition, our electronic and associated components can be replaced and repaired and are therefore not disposable products.

- **German Battery Act / German Battery Due Diligence Act**

  The German Battery Due Diligence Act (BatterieDG) aims to ensure the environmentally friendly handling of batteries and accumulators – from their manufacture and use through to their return and proper recycling. This is intended to conserve resources and minimise environmental impact.

  Our handling of the BatterieDG:

  - ✓ We fully comply with the requirements of the BatterieDG and ensure that all obligations regarding labelling, take-back and recycling are implemented.
  - ✓ Our products are designed so that batteries and rechargeable batteries remain replaceable and repairable. This increases the service life of the devices and avoids unnecessary electronic waste as defined by the BatterieDG.
  - ✓ By using long-life lithium-ion batteries and clearly documented take-back and disposal processes, we are making an active contribution to resource conservation and the recycling economy.
  - ✓ We only work with certified disposal and recycling partners in order to ensure proper collection and recycling as required by law.

9. Declaration of validity

9.1 Environmental Statement

The next validated environmental statement will be issued in the fourth quarter of 2026.

9.2 Validation confirmation

Michael Hub
Umweltgutachter
Berater Umwelt, Qualität, Sicherheit

ERKLÄRUNG DER UMWELTGUTACHTER ZU DEN BEGUTACHTUNGS- UND VALIDIERUNGSTÄTIGKEITEN

Die Unterzeichnenden, Michael Hub und Günter Jungblut, EMAS-Umweltgutachter mit der Registrierungsnummer DE-V-0086 und DE-V-0056, akkreditiert oder zugelassen für den Bereich (NACE-Code)

- 27.4 Herstellung von elektrischen Lampen und Leuchten
- 31.01.2 Herstellung von sonstigen Objektmöbeln
- 46.14.9 Handelsvermittlung von elektrotechnischen und elektronischen Erzeugnissen a.n.g.

bestätigen, begutachtet zu haben, ob die gesamte Organisation, wie in der Umwelterklärung der Organisation

Hess GmbH Licht + Form
Liegenschaft: Lantwattenstraße 22, D-78050 Villingen-Schwenningen
Hess GmbH Licht + Form – Business Unit Vulkan
Liegenschaft: Lantwattenstraße 22, D-78050 Villingen-Schwenningen
mit der Registrierungsnummer DE-169-00082

angegeben, alle Anforderungen der

Verordnung (EG) Nr. 1221/2009 zuletzt geändert durch
Verordnung (EU) 2018/2026 (EMAS)

über die freiwillige Teilnahme von Organisationen an einem Gemeinschaftssystem für

Umweltmanagement und Umweltbetriebsprüfung

erfüllt.

Mit der Unterzeichnung dieser Erklärung wird bestätigt, dass

- die Begutachtung und Validierung in voller Übereinstimmung mit den EMAS-Anforderungen durchgeführt wurden,
- das Ergebnis der Begutachtung und Validierung bestätigt, dass keine Belege für die Nichteinhaltung der geltenden Umweltvorschriften vorliegen,
- die Daten und Angaben der Umwelterklärung der Organisation ein verlässliches, glaubhaftes und wahrheitsgetreues Bild sämtlicher Tätigkeiten der Organisation innerhalb des in der Umwelterklärung angegebenen Bereichs geben.

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

Frankfurt am Main, 21.11.2025

Michael Hub, Umweltgutachter
DAU-Zulassungsnummer: DE-V-0086

Günter Jungblut, Umweltgutachter
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