

Environmental Statement 2024



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Hess GmbH Licht + Form

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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 of conditions and, in keeping with the company slogan of "Hess – Enhancing urban spaces", simultaneously meet the most sophisticated standards for design.

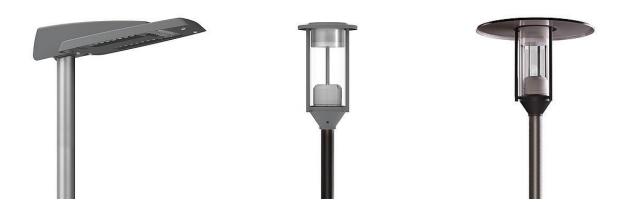


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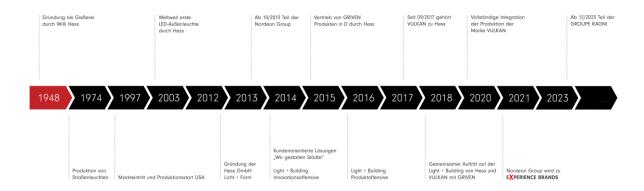
Vulkan - A brand of Hess

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. The product portfolio was optimally rounded off with the 2017 acquisition of "VULKAN", which also belongs to GROUPE RAGNI.



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1.2 Structure

Hess GmbH Licht + Form in Villingen has been part of Groupe Ragni since 1 December 2023. A total of some 20 professional consultants provide competent project support in Germany.

Hess exports to over 50 countries worldwide. Hess has a high profile as well as an excellent reputation and continues to expand its international presence (with expansion of its sales activities in France as well as a separate sales force in the United Kingdom).



1.3 Location information

The Hess headquarters in Villingen 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 5257 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 2023.



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

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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 possible 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)
- Electronics engineer for equipment and systems (m/f/d)



112 Employees

Full-time and part-time positions

95 full-time 17 part-time





46 years

Average age

Length of service

Employees

13.2 years





35 women 77 men

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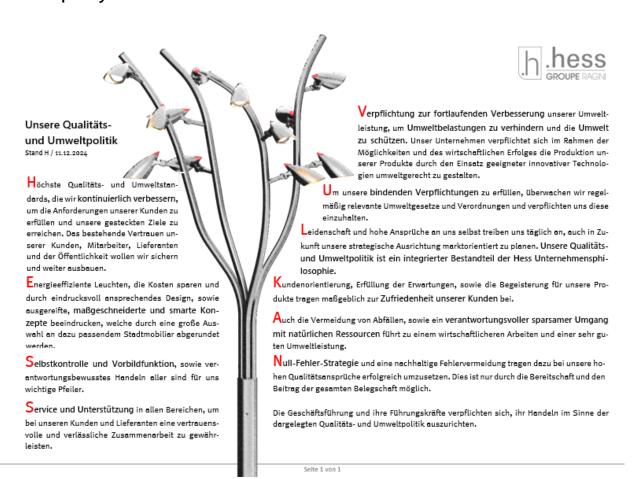
Corporate philosophy

2.1 Hess and our guiding principles

Wherever cities, municipalities and landscapes are being designed and shaped today, Hess products are present. We are an 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, design-oriented LED luminaires to illuminating bollards and in-ground spotlights through to beautiful heritage lighting. In the design sector, we offer barrier bollards, park benches, roll-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 all of this, our quality and environmental policy has become an integral component of the HESS corporate philosophy.

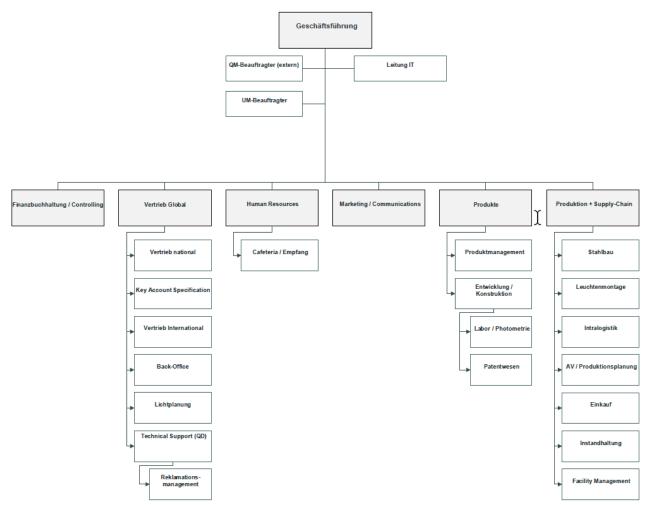
2.2 Our policy



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2.3 Structural organisation



Date 02/01/2024

The heads of department and representatives report directly to the Managing Directors. The heads of department are directly responsible for the results of the work in their area of responsibility, while the management representatives are responsible for the respective subject 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 managers at Hess are also responsible for the compliance of environmental-related activities in the various processes at the sites.

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.

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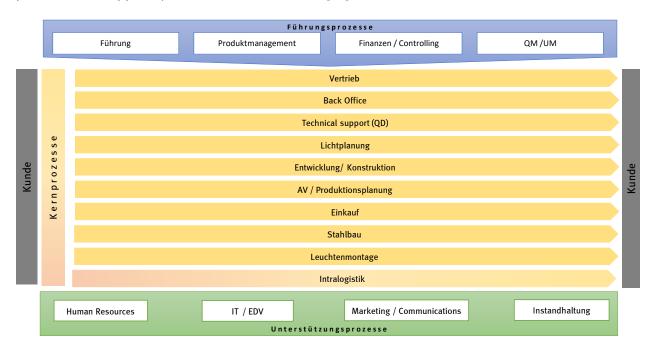


2.4 Processes

Development and production of LED luminaires, illuminating bollards, in-ground spotlights, barrier bollards, park benches and poles require the processes described below.

All cast products are manufactured for us by suppliers, including products such as tree grates, planters and waste receptacles.

Development of all products mentioned, takes place at the Villingen-Schwenningen site. These products are shipped by commissioned forwarding agents.



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

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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.

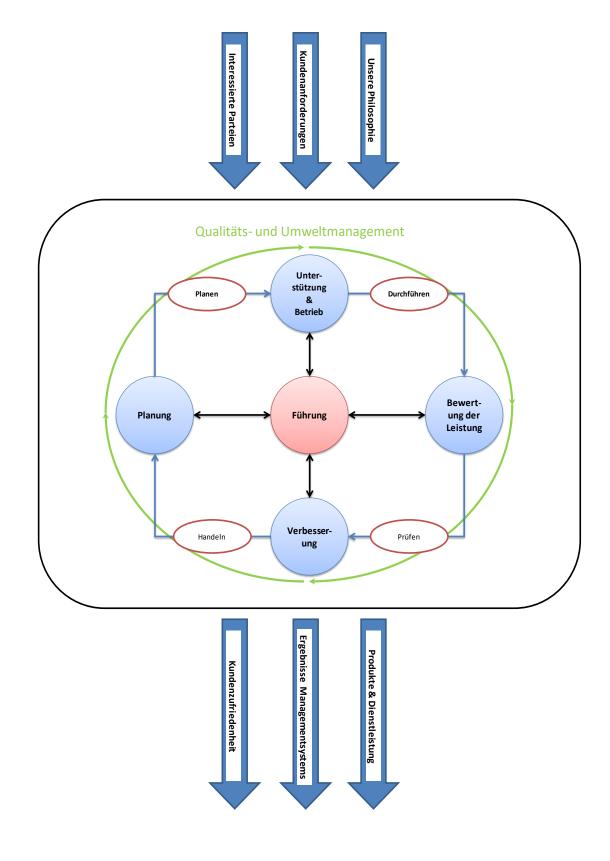
Quality and environmental management are jointly documented in our Integrated Management System.

The quality and environmental management system is influenced by our customers' requirements and our corporate philosophy as well as by the following stakeholders.



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4. Sustainability strategy

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



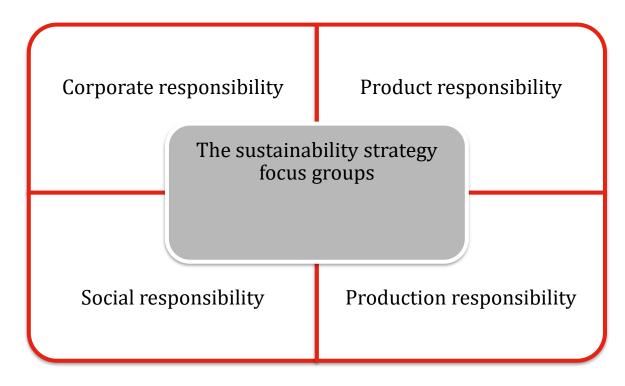
This was based on intensive dialogue with internal and external parties and the life cycle assessment.

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.



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4.1 CORPORATE RESPONSIBILITY

In times of economic crisis, corruption and fraud, it is becoming increasingly important for companies to address various stakeholders' trust issues. 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.

As a medium-sized company, Hess has been proving its persistence and vision in its business activities for almost a century.



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
- ✓ Independent verification and confirmation of product promises by notified bodies
- ✓ Technology driver (world's first LED streetlight manufacturer)
- ✓ Compliance policy to prevent corruption, bullying, etc.

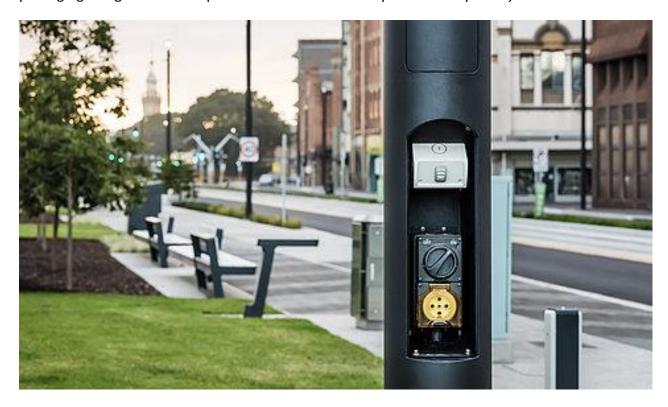
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4.2 PRODUCT RESPONSIBILITY

This field of action describes how Hess takes responsibility at the product level. The aim is to conserve resources and protect the environment and the surroundings.

Hess therefore uses competent partners in the region and almost exclusively materials from certified material manufacturers and avoids the use of potential risk substances in all products and packaging. In addition, Hess focuses on the longevity of its products, their repairability, the recyclability of its packaging and guarantees its partners and customers full product transparency.



Examples of measures already implemented:

Internal

- ✓ Comprehensive environmental impact analysis
- ✓ Average service life of our products is over 30 years
- \checkmark Extending the service life through technology upgrades, e.g., lamp \rightarrow LED
- ✓ Integrating new technologies for environmental protection (e.g., charging station for electric mobility, intelligent lighting systems, light spectra for insect protection)
- ✓ Link: Hess | CITY ELEMENTS
- ✓ 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

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Hess product lines' other sustainable advantages at a glance

Hess product lines offer numerous advantages.

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. As a result, maximum energy can be saved, for example, through night-time dimming in different stages or by lighting that adapts to the traffic conditions.

4. Benefit

Energy savings of 70% or more can be achieved and maintenance costs considerably reduced by significantly increasing the LEDs' efficiency and extending the maintenance intervals. In the case of a conversion, this results in extremely attractive payback periods.

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. Animals are therefore

12. Benefit

Recycling materials conserves resources. In the spirit of sustainability, most of our products are reusable. Another clear bonus for the environment.

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protected as a whole and the luminaires end up far less dirty.

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 for all relevant occupations. 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
- ✓ Establishment of a representative and advanced customer centre 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. Hess' efforts are aimed at using materials and energy as efficiently as possible in order to minimise

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any negative environmental impact from its business activity and therefore actively contribute to environmental protection.



Examples of measures already implemented:

- ✓ Use of state-of-the-art machines and equipment
- ✓ New assembly stations with one-piece flow
- ✓ LED technology throughout production
- ✓ Separation of waste by type for secondary raw material utilisation or appropriate disposal
- ✓ Switch to local waste disposal companies

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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 | Сара | acity for it to be influenced by us or by the customer | Relevant |
|--|-------|--|------|---|-----------------------|
| Product developm ent | 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 can only influence 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 | | | (1) Common definition of what the | |
| Transport to suppliers | 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 | | packaging should look like. (2) Avoidance of unnecessary transport (3) Choosing suppliers who are close by, | Yes |
| Transport from the supplier to us | Means | material. | | if qualified according to supplier evaluation. | |
| Further processing at the supplier for finished module | Means | | Low | In addition to the further development of the supplier's QM system, we can potentially work towards the promotion | Yes, but secondary |
| Further processing at the supplier into a semi- 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. | ר | of an environmental management system. | Yes, but |
| Final assembly of finished modules | Means | | High | (1) Avoidance of hazardous auxiliary materials in production (2) Avoidance of unnecessary work steps | Yes |

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| Further processing of semi- finished | Means | | | (3) Active evaluation of the quantities of auxiliary materials to be used in production (4) Reuse of non-hazardous raw | |
|---|-------|--|-------|---|-----|
| 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. | | materials and auxiliary materials used in production takes precedence over legally compliant disposal (5) If non-hazardous raw materials | |
| Disposal of auxiliary materials used in | 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? | | cannot be reused, they must be recycled. (6) Hazardous auxiliary materials used in production must be disposed of in accordance with statutory requirements. | |
| 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.

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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, since noise pollution is caused by the use of the machines in the production plant at the site. 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.

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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 architecture of the entire headquarters was built as a model manufacturing 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 \rightarrow relevant = yes

Extent is intermediate and can be influenced \rightarrow relevant = yes

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

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

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

| Direct environmental aspects | | Extent | | Influenceability Rel | | |
|------------------------------|-------|---------------------------|-----|----------------------------|-----------|--|
| Emissions into the | | | | | | |
| atmosphere (greenhouse | | Largest proportion of | | Control of energy | | |
| gas) | High | emissions | Yes | consumption | Yes | |
| Emissions into the | | | | Cannot be influenced | | |
| atmosphere (dust from | | In relation to greenhouse | | where our products are | | |
| freight) | Low | gases | No | used worldwide. | No | |
| | | | | Influence from working | | |
| | | | | from home. | | |
| | | The water consumption | | However, the effect is not | | |
| | | per capita for our | | that crucial, since we do | | |
| Discharges and drainage | | company is below the | | not need any process | | |
| into sewage system | Means | average in Germany | Yes | water in production. | Yes | |
| Generation, recycling, | | | | Especially in the area of | | |
| reuse, transport and | | | | waste from packaging | | |
| disposal of solid and | | | | (from delivered goods) | | |
| other wastes, especially | | In 2023, we were at 60 | | and the use of paper and | | |
| hazardous waste | High | tonnes | Yes | cardboard. | Yes | |
| Use of natural resources | | | | 34.4234.4. | | |
| and raw materials, | | 2023 total consumption: | | Through savings in | | |
| including energy | High | 1423 MWh | Yes | lighting and heating. | Yes | |
| Use of raw materials, | _ | | | | | |
| additives, auxiliary | | | | | | |
| materials and semi- | | 2023 total consumption: | | Sensible handling and | | |
| finished products | High | 141 t. | Yes | purchasing of materials. | Yes | |
| | | Since emissions from | | | | |
| | | freight are not relevant | | Through the choice of | | |
| Transport (in relation to | | compared to emissions | | suppliers and service | Yes, but | |
| goods and services) | Low | from energy consumption. | Yes | providers | secondary | |

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

5.5 Indirect environmental aspects

| | | Extent | | Influenceability | Relevant |
|--|--------|---|-----|---|-----------|
| | | | | Through: | |
| | | Through the use of LEDs, our customers can cut their emissions in half. | | Exclusive development of new LED luminaires. | |
| | | The light spectrum of LEDs | | Discontinuation of all existing products that | |
| | | has far fewer detrimental cannot be effects on nocturnal developed | | cannot be further developed in the | |
| | | insects. | | direction of LEDs. | |
| Design and development Composition of the | | This also reduces the use of cleaning agents for | | Continuous implementation of new | |
| product range | High | outdoor illumination. | Yes | LED generations. | |
| | | Through further developments in the area | | | |
| | | of LEDs and sensible | | | |
| | | networking with sensor technology to reduce | | | |
| New markets | High | energy consumption even further. | Yes | It is closely linked to design and development. | Yes*) |
| New markets | 111511 | Turtifer | 103 | Selection of | 163) |
| | | The effort required for | | environmentally friendly | |
| | | disposal of packaging from our suppliers' | | and disposable packaging materials and | |
| | | products/materials is | | its reduction to a | |
| Packaging | High | substantial. | Yes | necessary maximum. | Yes |
| | | To some extent we are | | | |
| | | bound to certain forwarding agents due to | | Sensible bundling of freight in order to | |
| | | products that are | | consume as little | |
| | | sometimes quite bulky. | | transport space as | |
| | | This also applies to the | | possible so that its | |
| | | products/materials from | | impact on the | |
| | | our suppliers. This does | | environment through emissions can be | Yes, but |
| Transport | Low | not make them any less bulky. | Yes | reduced. | secondary |
| | | The reuse of used | | Due to aesthetic and | |
| | | packaging material is only | | hygienic reasons, the | |
| | | possible to a very limited | | reuse of packaging | |
| Use and | 1 | extent and hardly ever | NI- | materials is only possible | N - |
| reuse | Low | happens. | No | to a limited extent. | No |

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| | | The materials and products | | | |
|------------------------|-------|----------------------------|-----|-------------------------|-----|
| | | we purchase may require | | | |
| | | disposal that is | | | |
| | | environmentally critical | | | |
| | | (e.g. paint production). | | | |
| Environmental | | Waste from the production | | In the area of supplier | |
| performance and | | of our products may also | | loyalty, accelerate | |
| behaviour of suppliers | | have an impact on the | | sustainability | |
| Disposal of waste | Means | environment. | Yes | 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 |
|---|-------|------------------------------|------|---------------|------|--------------------|---------------|
| | 2021 | 2022 | 2023 | 2023 | 2024 | 2023 | 2023 |
| Reduction of energy consumption (and greenhouse gases) Total energy Unit: MWh/ThMA | 10.77 | 10.70 | 10.0 | 10.50 | 10.4 | Target achieved | |
| Reduction in waste generation Total waste Unit: t / ThmA | 0.42 | 0.47 | 0.43 | 0.45 | 0.45 | Target achieved | |
| Reduction of material consumption Total material consumption Unit: 1 ThMA | 1.1 | 1.2 | 1 | 1.40 | 1.2 | Target achieved | |

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

We were able to realise all planned targets in 2023.

Planned targets for achieving the goals set for 2024 are:

- ✓ Vehicle directive
- ✓ Procurement of green electricity
- ✓ Better waste separation
- ✓ Reduction of internal waste

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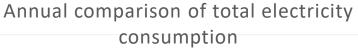
7. Annual environmental data and facts

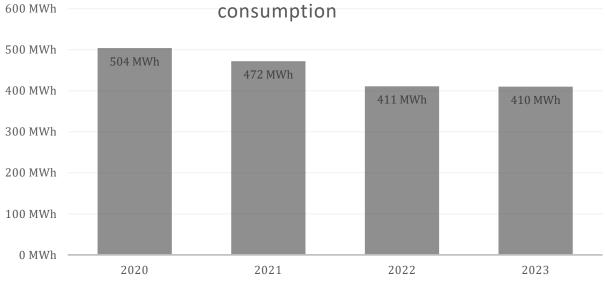
Reference value:

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 | 2020 | 2021 | 2022 | 2023 |
|------|------|------|------|------|
| ThMa | 174 | 160 | 156 | 143 |

7.1 Energy



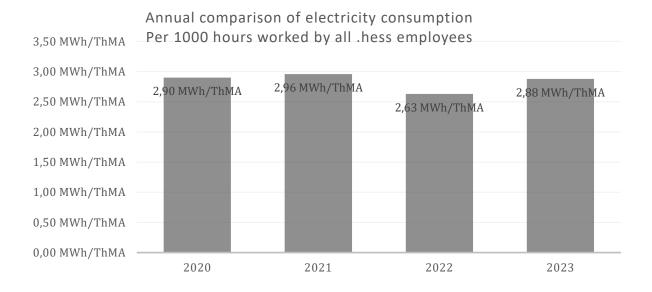


Conclusion:

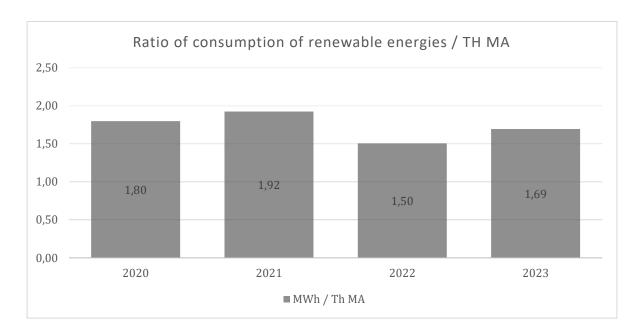
Slightly positive trend

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Conclusion: Despite a reduction in the number of employees, output increased slightly.

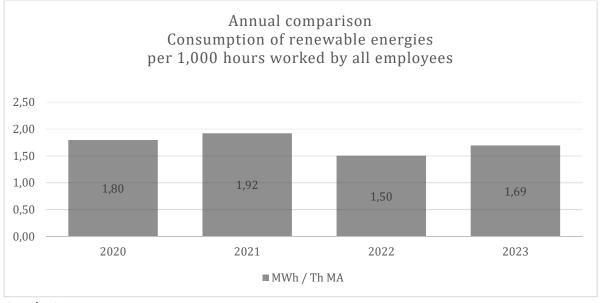


Conclusion:

Despite a reduction in the number of employees, output increased slightly.

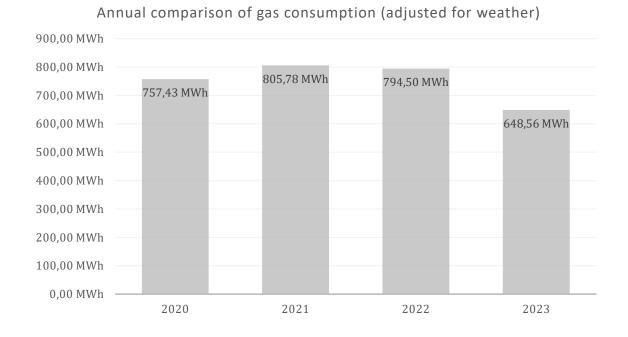
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Conclusion:

Despite a decrease in the number of employee hours, output increased slightly.

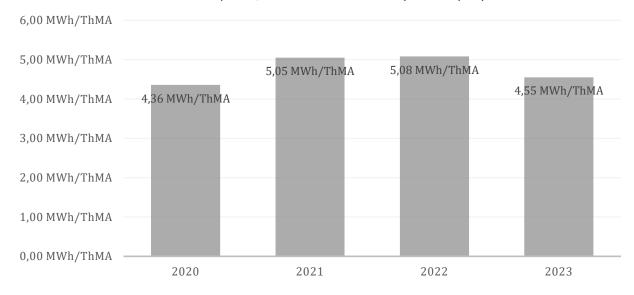


Conclusion: Positive trend

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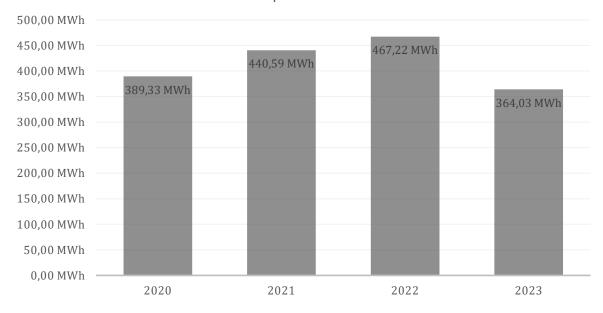


Annual comparison of gas consumption (adjusted for weather) per 1,000 hours worked by all employees



Conclusion: Positive trend



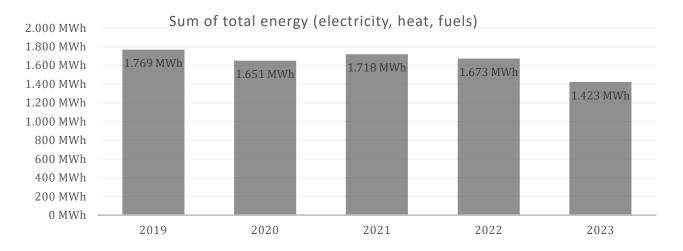


Conclusion:

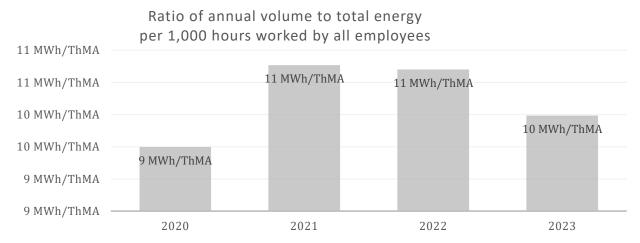
Positive trend due to conversion to e-vehicle or hybrid.

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Conclusion: Positive trend



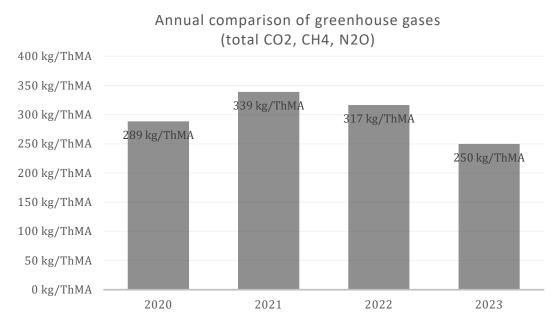
Conclusion: Positive trend

7.2 Emissions

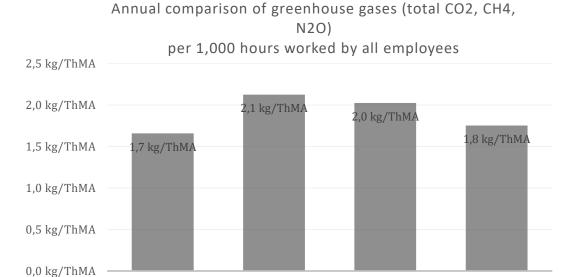
Our gas heating systems are subject to Germany's Small and Medium-Sized Combustion Plant Ordinance (1. BImSchV [Federal Emission Control Ordinance]). Compliance with the limit values is regularly checked by the chimney sweep. The last inspections (July 2023 KÜO [Sweeping and Inspection Regulations], 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: Positive trend



2021

Conclusion: Positive trend

2020

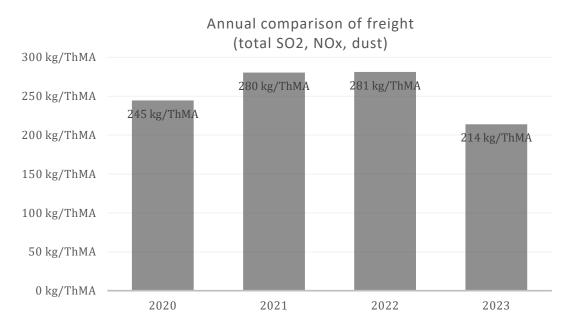
o7. Mar. 2025

2022

2023

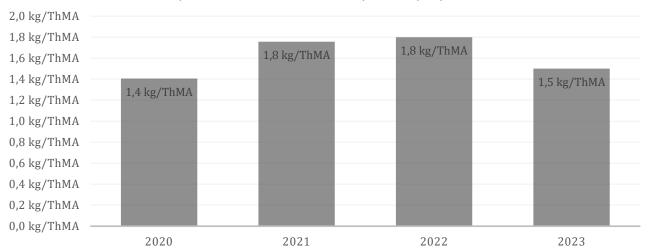
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Conclusion: Positive trend





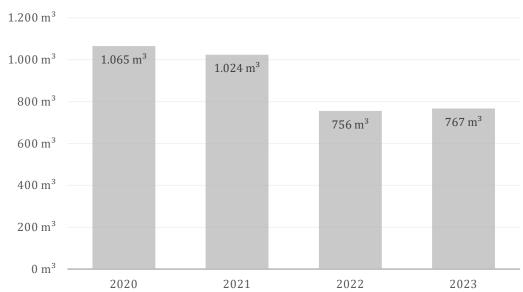
Conclusion: Positive trend

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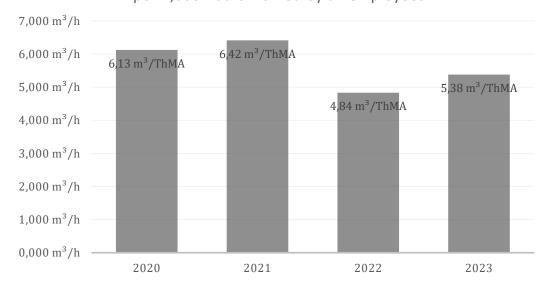
7.4 Water consumption





Conclusion: Almost the same

Annual comparison of water consumption per 1,000 hours worked by all employees



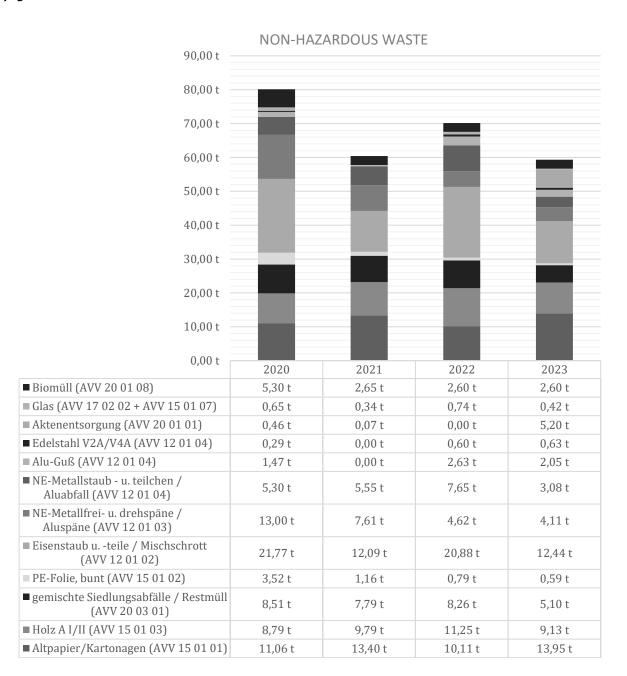
Conclusion:

The negative trend is due to a defect in the water supply.

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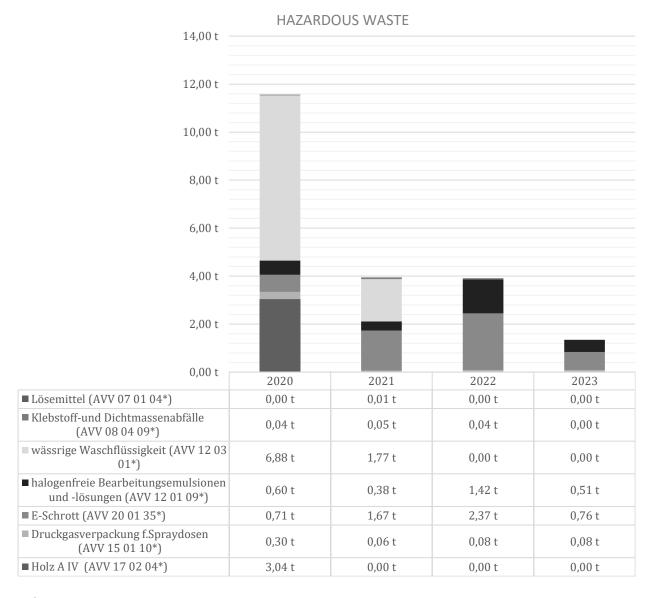
7.5 Waste



Conclusion: Positive trend

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Conclusion:

Slight reduction in hazardous waste in 2023.

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Conclusion: Positive trend



Conclusion: Positive trend





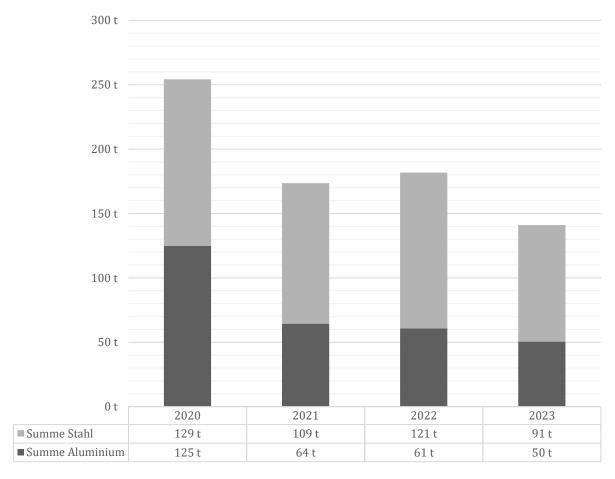
Conclusion: Positive trend

7.6 Total material consumption (indicator)

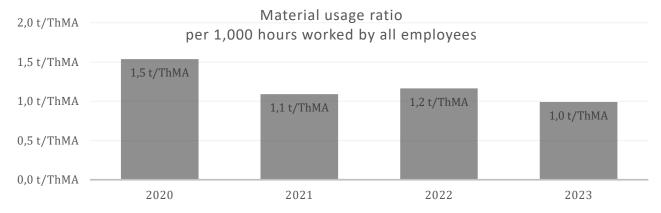
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Annual consumption of material



Conclusion: Positive trend



Conclusion:

-

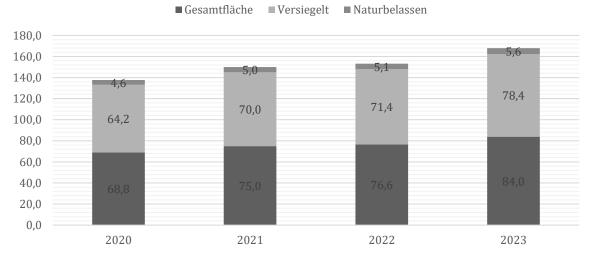
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7.7 Surface area use

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

Ratio m² / Th ma



Conclusion: Positive trend

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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 CO2 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 confirmation according to Section 3 (2) GewAfV and Section 6 (1) GewAbfV is on hand.
- ✓ The documentation is always kept up to date.

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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. This means that all luminaires, that are new or further developed, are only equipped with LEDs that can achieve energy savings of up to 70%.
- ✓ In addition, our electronic and associated components can be replaced and repaired and are therefore not disposable products.

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Declaration of validity

9.1 Environmental Statement

The next validated environmental statement will be issued in the fourth quarter of 2025.

9.2 Validation confirmation

Michael **H**ub Umweltgutachter **B** erater Umwelt, Qualität, Sicherheit

ERKLÄRUNG DES UMWELTGUTACHTERS ZU DEN BEGUTACHTUNGS- UND VALIDIERUNGSTÄTIGKEITEN

Die Unterzeichnenden, Michael Hub und Günter Jungblut, EMAS-Umweltgutachter mit den Registrierungsnummern 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 aktualisierten 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 de

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 aktualisierten 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, 20.12.2024

Vichael Hub, Umweltgutachter

DAU-Zulassungsnummer: DE-V-0086

Günter Jungblut, Umweltgutachter DAU-Zulassungsnummer: DE-V-0056

IIASSUNGSNUMMET: DE-V-0056 Zugelassen von der DAU – Deutsche Akkredtlerungs- und Zulassungsgesellschaft **Environmental verifier**

UMWELTGUTACHTERBÜRO MICHAEL HUB Niedwiesenstr. 11a D-60431 Frankfurt am Main Phone: 069 5305-8388

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