



**SONLUX**



# ENVIRONMENTAL STATEMENT 2025

RZB Rudolf Zimmermann, Bamberg GmbH  
SONLUX Lighting GmbH



RZB Rudolf Zimmermann, Bamberg GmbH and SONLUX Lighting GmbH

# **Environmental statement 2025**

Bamberg and Sondershausen site

Validation year: 2024

Reporting period: 2022–2024

Validation in accordance with EMAS Regulation (EC) 1221/2009

# Contents

<b>1. Preface</b>	<b>5</b>
<b>2. Company profile and description of site</b>	<b>6</b>
2.1 Company profile	6
2.2 Bamberg site	10
2.3 Sondershausen site (Sonlux)	16
<b>3. Quality and environmental policy</b>	<b>21</b>
<b>4. Integrated management system</b>	<b>22</b>
<b>5. Environmental aspects</b>	<b>23</b>
5.1 Evaluation of environmental aspects	23
5.2 Description of the important environmental aspects	24
<b>6. Overview of EMAS core indicators according to site</b>	<b>26</b>
6.1 Energy	26
6.2 Emissions	30
6.3 Material usage	32
6.4 Waste	35
6.5 Water/waste water	38
6.6 Biodiversity	39
6.7 Specific indicators	40
<b>7. Compliance with legislation</b>	<b>40</b>
<b>8. Environmental objectives 2024–2028</b>	<b>41</b>
<b>9. Validation</b>	<b>46</b>
<b>10. Legal notice</b>	<b>48</b>

# 1. Preface

In today's times, climate change and environmental protection are important topics for the population, legislators and other organisations. Our companies too, i.e., RZB Rudolf Zimmermann, Bamberg GmbH and SONLUX Lighting GmbH, want to make a contribution here and take responsibility for our actions, by using an environment management system in accordance with EMAS.

In the development and production of our products, we pay attention to climate friendliness and sustainability. Amongst others, we supply luminaires with replaceable and recyclable components, to enable reparability and go easy on resources. Furthermore, we offer products with insect-friendly lighting. In doing so, we support species protection and prevent a loss of biodiversity. Because insects not only pollinate plants, but also serve as food source for other living creatures. With our extensive and innovative product range, we want to further expand our competitiveness, and make our contribution to the climate and environmental protection.

With the environmental management system in accordance with EMAS at the Bamberg and Sondershausen sites, we have created stable environmental processes in the company which are regularly checked and developed further. Furthermore, an environment programme was created with objectives, contributing to a continuous improvement of environmental performance.

With the environmental statement in accordance with the EMAS Regulation, we want to provide customers, employees and the interested parties with insights into our company about environmental performance and effects.

Bamberg, 01/10/2025



Reiner Jürgens

Managing Director

## 2. Company profile and description of site

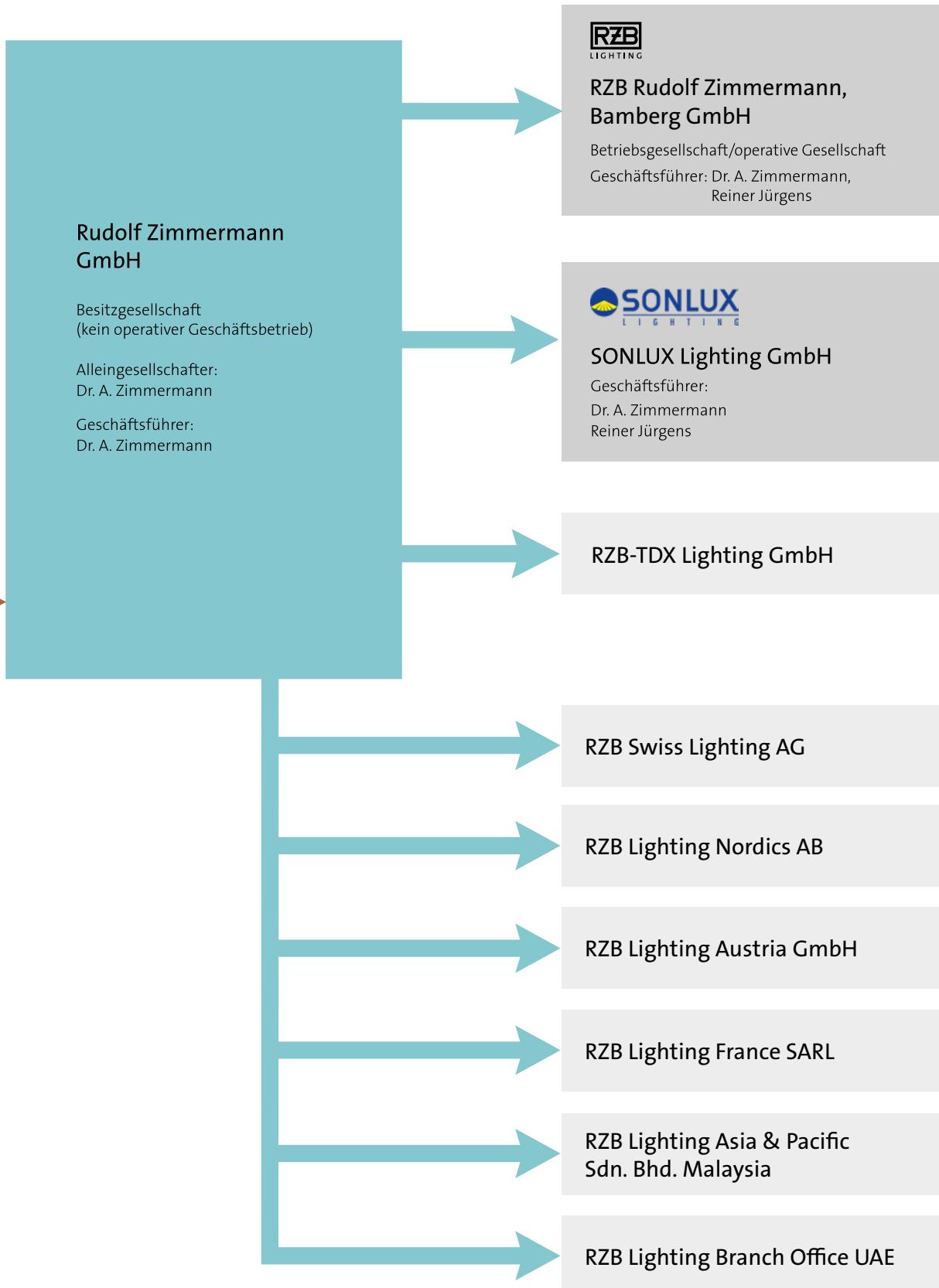
### 2.1 Company profile

RZB Rudolf Zimmermann, Bamberg GmbH and Sonlux Lighting GmbH are part of the Holding of Rudolf Zimmermann GmbH. The headquarters of the respective subsidiaries can be found as follows:

- RZB Rudolf Zimmermann, Bamberg GmbH ⇒ based in Bamberg (Bavaria)
- Sonlux Lighting GmbH ⇒ based in Sondershausen (Thuringia)

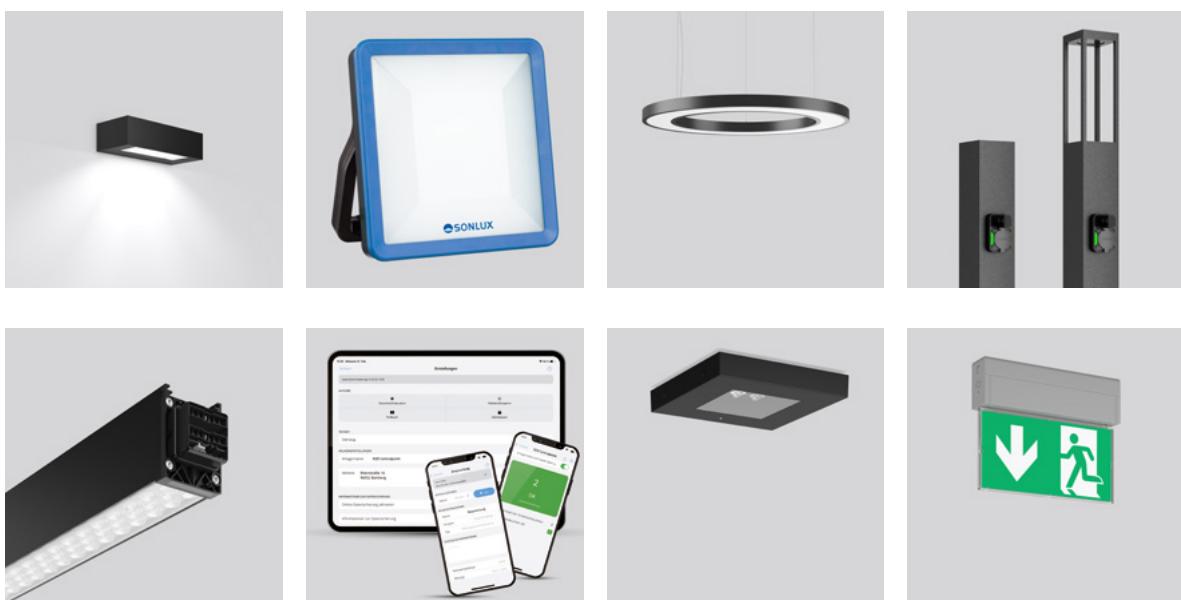
#### Shareholder structure:





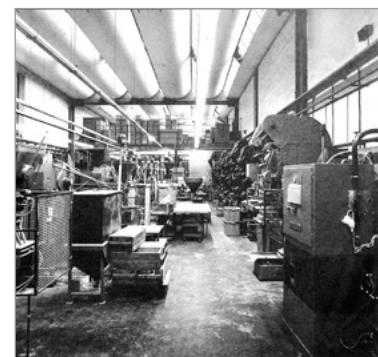
## Overview

<b>Industry:</b>	Production of electrical lamps and luminaires Production of other electrical equipment and devices
<b>Products:</b>	Outdoor luminaires Workplace luminaires Interior luminaires Luminaires with integrated charging function (RZB Energy) Continuous line luminaire systems Light management Emergency lighting systems Emergency luminaires
<b>Applications of the products in the fields:</b>	Light for education Light for construction sites Light for health Light for industry Light for office Light for emergency services and disaster control Light for shop
<b>Fields of activity of the organisation:</b>	Development, production and service activities
<b>Foundation:</b>	15. March 1939
<b>Founder:</b>	Rudolf Zimmermann
<b>Sole shareholder:</b>	Dr. -Ing. Alexander Zimmermann
<b>Executive board:</b>	Dr. -Ing. Alexander Zimmermann Reiner Jürgens



## History

<b>1939</b>	Foundation of RZB (Rudolf Zimmermann Bamberg) – Rudolf Zimmermann's factory for electrotechnical supplies.
<b>1948</b>	Start of production of all-glass luminaires.
<b>1959</b>	Introduction of plastics processing with tools and moulds made in-house.
<b>1960</b>	Introduction of the pioneering quick-fix system (DKN) for all-glass luminaires, and start of production of ISO oval luminaires.
<b>1970</b>	Official inauguration of the new site at Bamberg harbour, which was continually extended over the next few years.
<b>1978</b>	Dr.-Ing. Alexander Zimmermann is entered in the Bamberg Commercial Register as managing sole proprietor of RZB Lighting.
<b>1992</b>	SONLUX subsidiary founded in Sondershausen, Thuringia.
<b>2000</b>	rzb.de goes online.
<b>2010</b>	RZB invests in sustainable energy production with 30,000 m <sup>2</sup> solar installation on company roofs.
	Sonlux invests in sustainable energy production with 7,000 m <sup>2</sup> solar installation on company roofs.
<b>2016</b>	Shop lighting specialist TDX is now RZB-TDX, providing lighting concepts for sales areas and showrooms.
<b>2017</b>	A new high-bay warehouse and multifunctional building becomes an RZB architectural landmark.
	Sonlux switches lighting in the entire production, warehouse and dispatch area to energy-efficient LED luminaires.
<b>2021</b>	The LIFE Center becomes RZB World.
<b>2022</b>	From light to charging station: Expansion of e-Mobility is in full swing. The new brand RZB ENERGY is playing an active role in this transformation, with elegant combinations of outdoor lighting and charging stations.
<b>2023</b>	www.rzb.de radiates new splendour. The company website was completely overhauled and now impresses with a modern design, excellent user navigation and top performance.



## 2.2 Bamberg site





The Bamberg site has a total surface area of 86,560 m<sup>2</sup> and employs around 680 staff.

One of our strengths at this site is the high variety of processes. It ranges from market analysis to workshop / seminars as follows:

- Market analysis
- Research and development
- CAD / simulation calculation
- Rapid prototyping
- Toolmaking
- Metalworking centre
- Profile machining centre
- Surface technology
- Thermoset manufacturing
- Installation (production areas)
- Company test laboratories
- Tests in the production process
- After sales services
- Inspection of incoming goods
- Customer advisory service and light planning
- Development and sample production
- Production / special construction
- Workshop / seminars



As can already be seen from the process variety, we have the respective machinery and equipment on hand. This includes the following machines or systems:

- Punching laser machines and punching nibbling machines
- Press brakes
- Bar processing centres, underfloor saws, profile rolling machines
- Grinding machines
- Welding workplaces
- Thermosetting press
- Powder coating plant
- Hand assembly workplaces according to product version
- 5-axis CNC milling machines and 3-axis NC milling machines
- Lathes
- Wire/vertical eroding machines



Our services include after sales service, e-mobility - 360° service for RZB Energy, customer advisory service and light planning as well as special constructions. With the after sales service, we can offer the following:

- Spare parts
- Repairs
- Commissioning of self-contained / central battery or group battery systems
- Maintenance, service or repairs of the emergency lighting systems
- Complaint about technical faults
- Commissioning by the light management

However, with e-mobility - 360° service for RZB ENERGY we offer the following:

- Commissioning, service and maintenance of our luminaires with integrated charging function (RZB ENERGY)

In addition, our experienced light planners provide advice and support to our customers with online calculation tools, so they can choose suitable luminaires for the room in question. Furthermore, we offer a solution or alternative with special constructions for every field of application, such as for existing systems or other applications.

The Bamberg site was validated in accordance with EMAS in 2024. The following figure visualises the area for the environment management system in accordance with EMAS by a green frame.

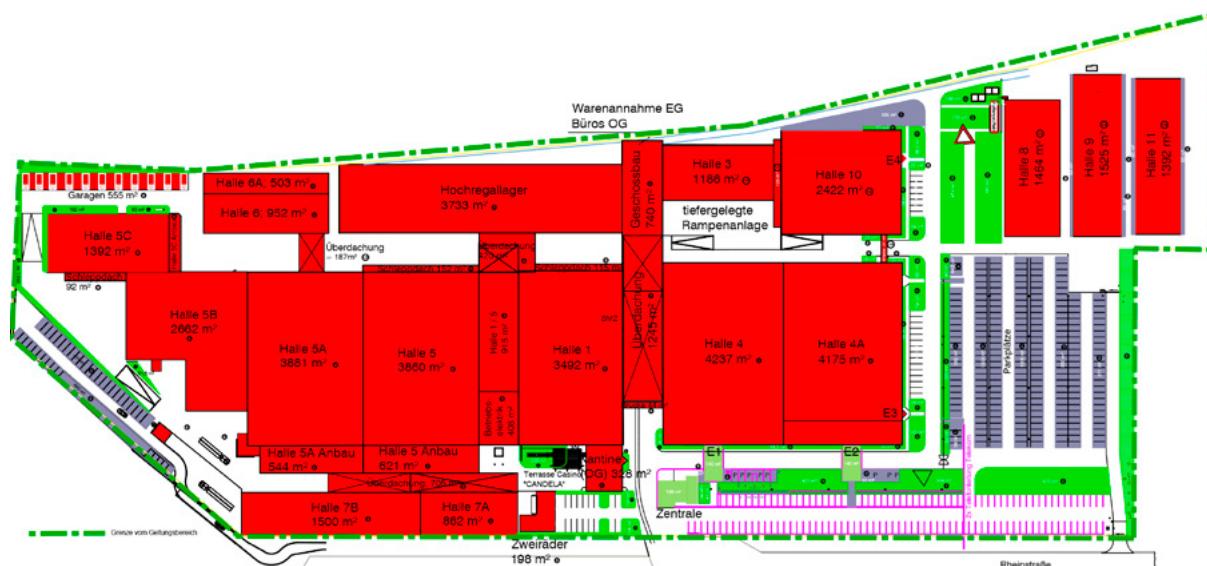


Figure - Bamberg site: RZB Rudolf Zimmermann, Bamberg GmbH | Rheinstr. 16 | 96052 Bamberg | Germany

The hierarchy at the Bamberg site was determined by the executive board. Compared to the previous year, the number of main pillars as well as name of the departments changed in the organisation chart. More synergies are to be created in the divisions with the new structure.

The executive board is thus now followed by four main pillars. These cover the following divisions and are looked after by responsible members of the management or the extended management:

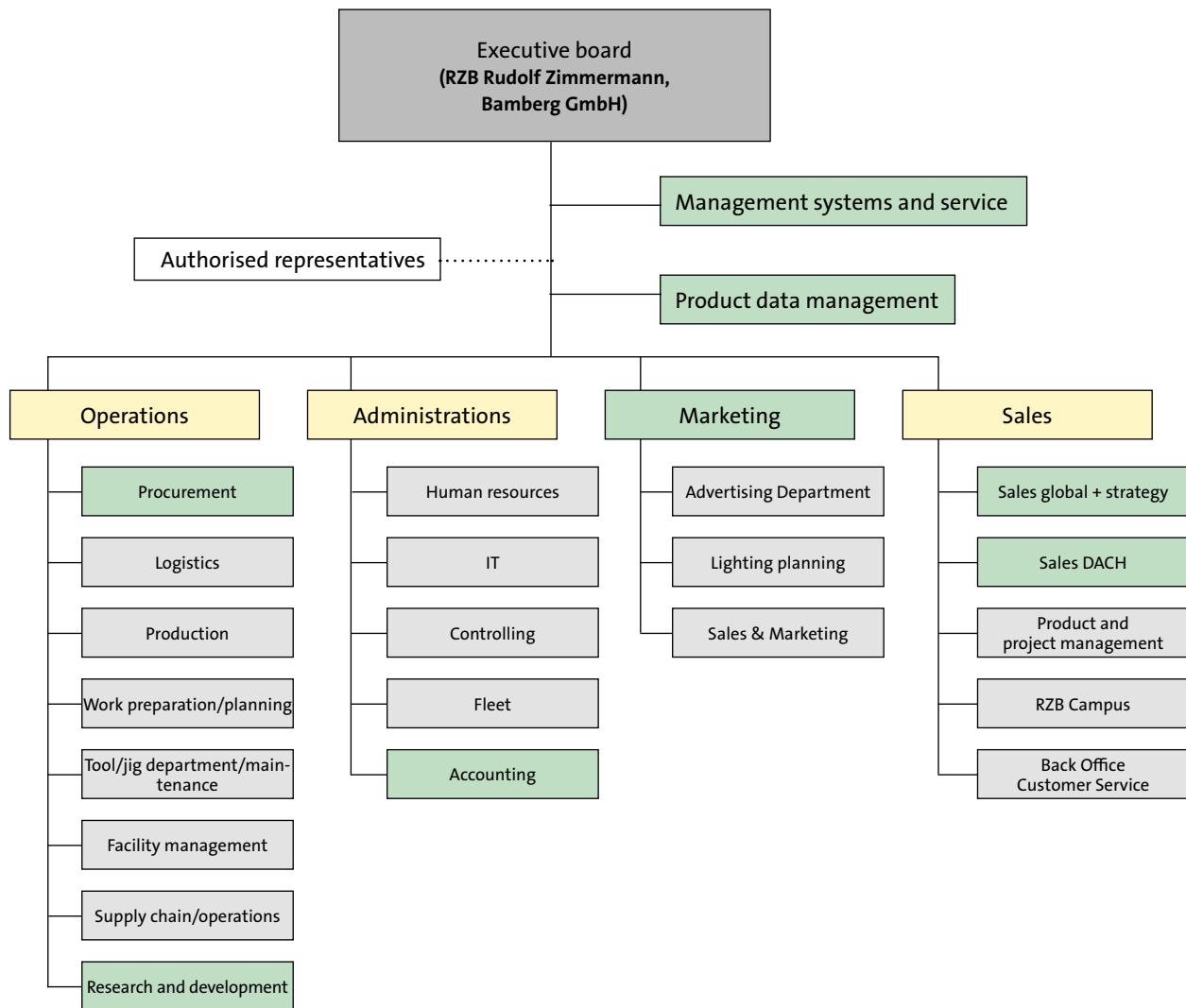
- Operations
- Administrations
- Marketing
- Sales

The pillars are also divided into different departments. The divisions, management systems and service as well as product data management form the staff units. In addition, the operational representatives support the executive board to meet the legally required tasks and provide technical advice. The representatives include:

- Waste manager
- Representative for ladders and footsteps
- Company doctor
- Fire prevention officer
- Fire protection assistant / evacuation assistant
- First aider
- Occupational safety specialist
- Officer for hazardous goods
- Authorised internal representatives for waste
- Authorised internal representatives for hazardous goods in road traffic
- Coordinator for waste and hazardous goods
- Authorised rack representatives
- Safety officers
- Sprinkler supervisor
- Environmental management officers



The members of the management are shown in yellow in the organisation chart. In comparison, the extended management is marked in green.



## 2.3 Sondershausen site (Sonlux)





The Sondershausen site has a total surface area of 101,573 m<sup>2</sup> and employs around 100 staff. SONLUX mainly produces luminaires for the professional, OEM and higher consumer sector. SONLUX also produces articles that supplement the product range of the company group, and also works as contract manufacturer for the affiliate companies and for third parties. As at the Bamberg site, a number of processes are also performed here. These range from development to service and are structured as follows:

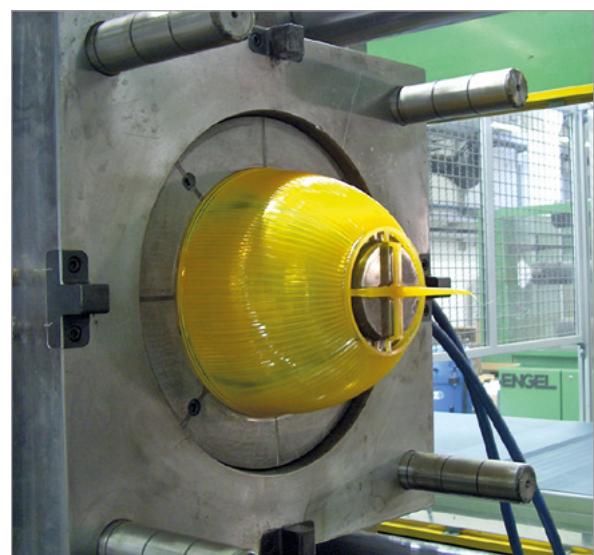
- Research and development
- Plastics processing in the injection moulding process, 12 machines with a closing force of 35 t to 1000 t
- Plastics processing in the vacuum forming process
- Printing in the pad printing process
- Installation
- Tests in the production process
- After sales services
- Inspection of incoming goods
- Production / special construction

As can already be seen from the process variety, we have the respective machinery and equipment on hand. This includes the following machines or systems:

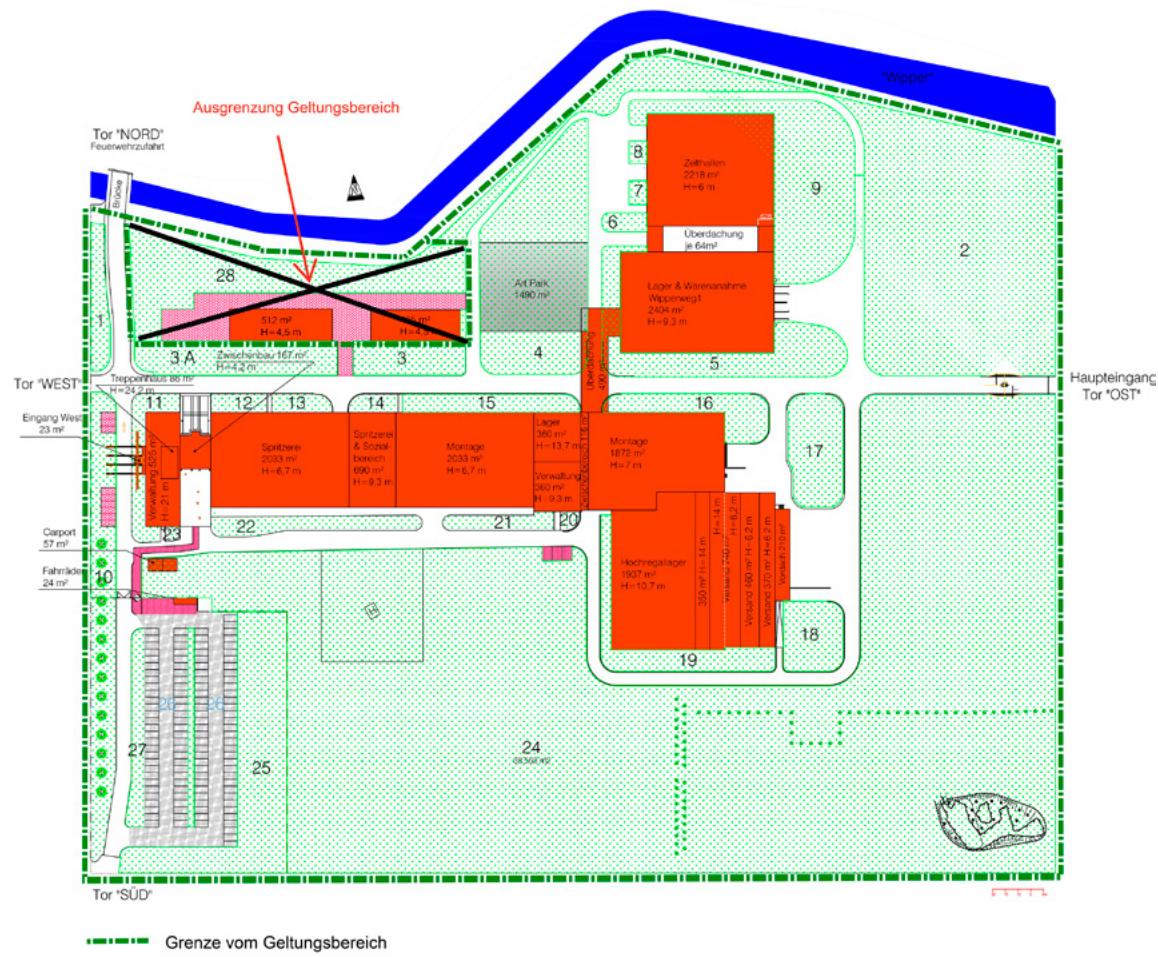
- 12 injection moulding machines with a closing force of 35 t to 1000 t
- 2 vacuum forming machines
- 2 pad printing machines
- Hand assembly workplaces according to product version

Our services include after sales service, customer advisory service as well as special constructions. With the after sales service, we can offer the following:

- Spare parts
- Repairs
- Complaint about technical faults



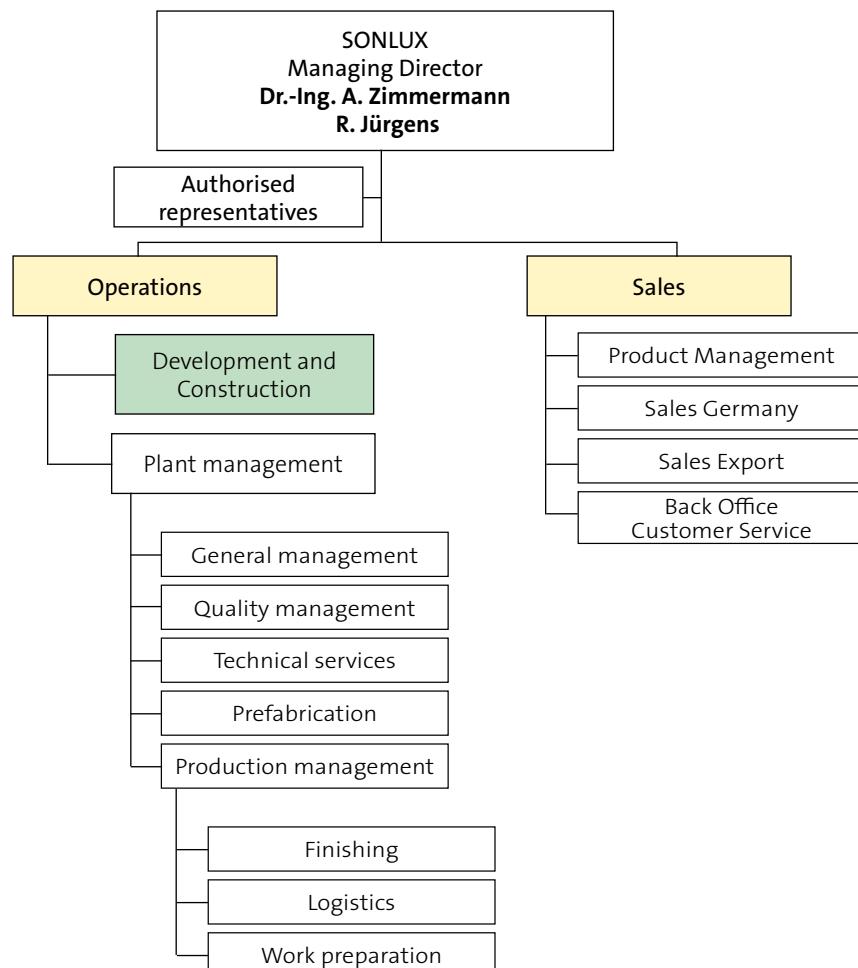
The Sondershausen site was validated in accordance with EMAS in 2024. The following figure visualises the area for the environment management system in accordance with EMAS by a green frame.



As can be seen in the organisation chart, Sonlux also has authorised representatives. These include amongst others:

- Waste manager
- Representative for ladders and footsteps
- Company doctor
- Fire prevention officer
- Fire protection assistant / evacuation assistant
- First aider
- Occupational safety specialist
- Officer for hazardous goods
- Authorised internal representatives for waste
- Authorised internal representatives for hazardous goods in road traffic
- Coordinator for waste and hazardous goods
- Coordinator for environmental management
- Authorised rack representatives
- Safety officers
- Environmental management officers

The members of the management are shown in yellow in the organisation chart. In comparison, the extended management is marked in green.



### 3. Quality and environmental policy

The basis for our actions as well as the general company direction is informed by our policy. This is made up of quality and environmental policy. A framework was thus created for setting quality and environmental objectives as well as for quality and environmental management.

Our detailed policy was published for interested parties to view on our homepage. Our policy is as follows:

#### **Quality policy**

- To promote the **quality awareness** and individual responsibility of our employees, our managers have the task to strengthen open communication and involve employees in decision processes.
- Every employee is obliged within the scope of their work to contribute responsibility to the **continuous improvement** of the processes and monitor their efficiency.
- The **satisfaction of our customers** is our central quality objective. Feedback from our customers is important for our continuous improvement.
- Our quality management system targets the **preventive avoidance of errors**. With this, we lower the number of possible complaints.
- Our quality work and performance is based on cooperation with **quality-oriented and high-performing suppliers**. The partnership behaviour provides us with long-term business relations to a high level of quality.
- Our products and services meet applicable guidelines as well as legal and customer **requirements**. We keep our **product quality promise** to customers and legislators.

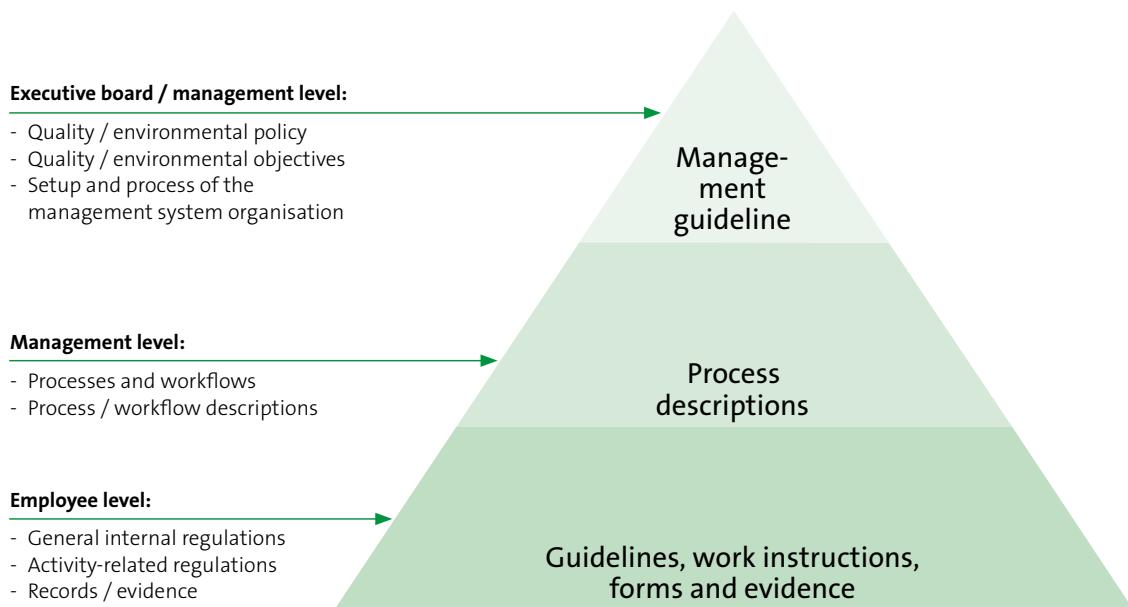
#### **Environmental policy**

- Our aim is to develop and produce **climate-friendly and sustainable products**, by taking the environmental aspects into account already during the product development process. The energy-efficient use of machines and equipment in accordance with the current state of technology for new acquisitions or replacements is also an important topic.
- Our **employees are at the heart** of our company. Their commitment contributes to the continuous optimisation of our process landscape and thus enables constant improvement of our environmental performance together with the objective of **efficiency and permanent quality improvement**.
- As responsible company, we commit to compliance with all environmentally relevant legal and official requirements of our organisation. Our compliance measures ensure that we **avoid pollution**, handle raw materials, operating materials and auxiliary materials conscientiously and **comply with emission standards**. In addition, our company intends to consider the ecological aspects with regard to procurement.
- With this commitment to the environment, we contribute to minimising risks for the environment, going easy on resources, saving energy, and at the same time, strengthening our image as sustainable company. We are proud to make our own contribution to a clean environment and look forward to successfully implementing our environmental obligations also in the future, and **continuously improve them by following the environmental programmes**.

## 4. Integrated management system

Our companies, RZB Rudolf Zimmermann, Bamberg GmbH and SONLUX Lighting GmbH, operate an integrated management system. This includes components from the ISO 9001 for the quality management, the EMAS Regulation for the environmental management as well as the calibration directive (certified in accordance with module D calibration directive). With our integrated management system, we can utilise the synergy effects of the different systems in a targeted way to increase the efficiency in the company, minimise risks as well as save costs. The uniform structure as well as fixed rules forming a kind of "regulatory framework" guarantee stable processes.

The integrated management system can be set up by means of different instruments, methods and requirements, as follows:



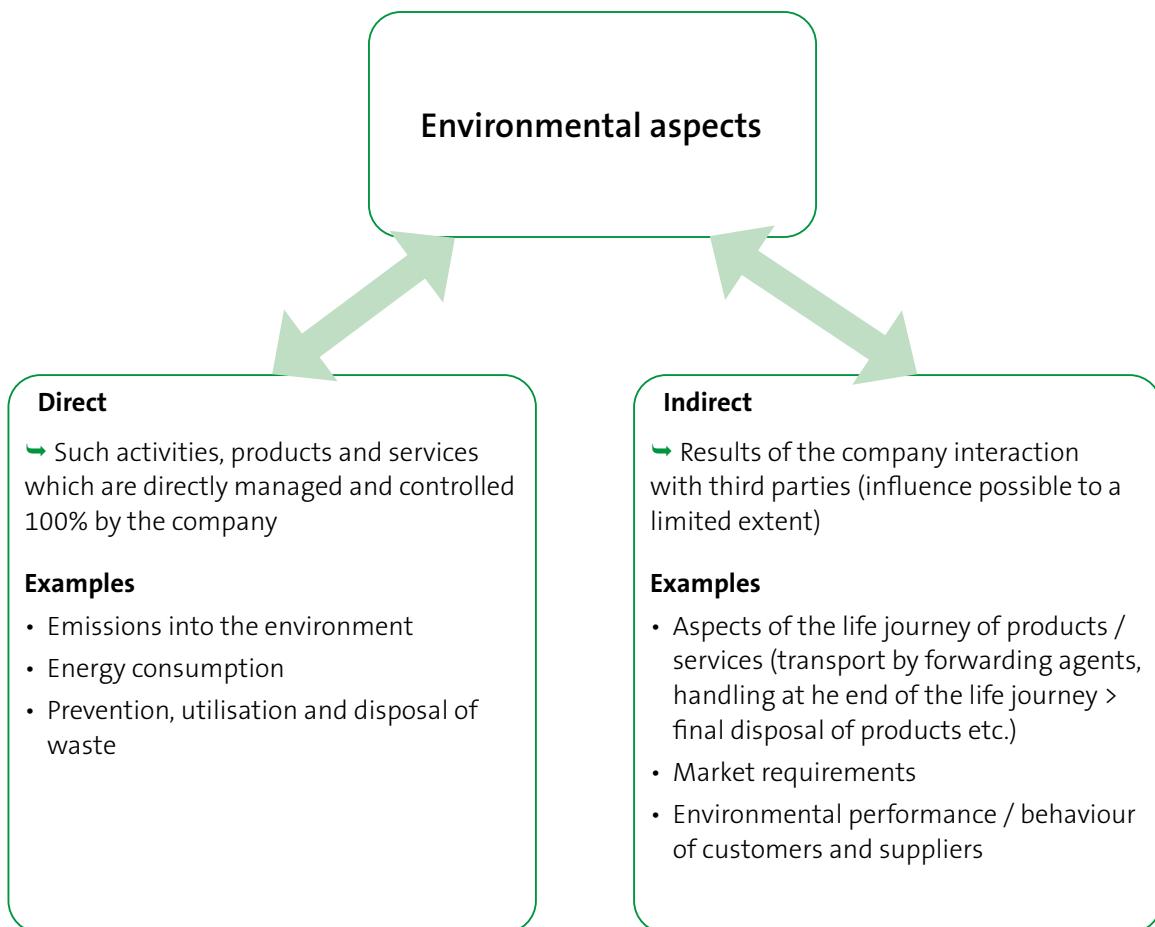
The integrated management system was rated in an annual management review. This review includes economical, ecological and quality-relevant topics. Based on comprehensive documentation of the quality management and environmental management system with the respective results from the processes and additional requirements, the executive board is able to rate the efficiency of the management system. Improvements can thus be detected, derived and followed within the company. Regular meetings and software solutions are in place for this, which enable the potential for improvement to be passed on and include the employees.

Furthermore, EMAS requires an annual creation of the environmental statement, which is confirmed by an external environmental expert with a validation.

# 5. Environmental aspects

## 5.1 Evaluation of environmental aspects

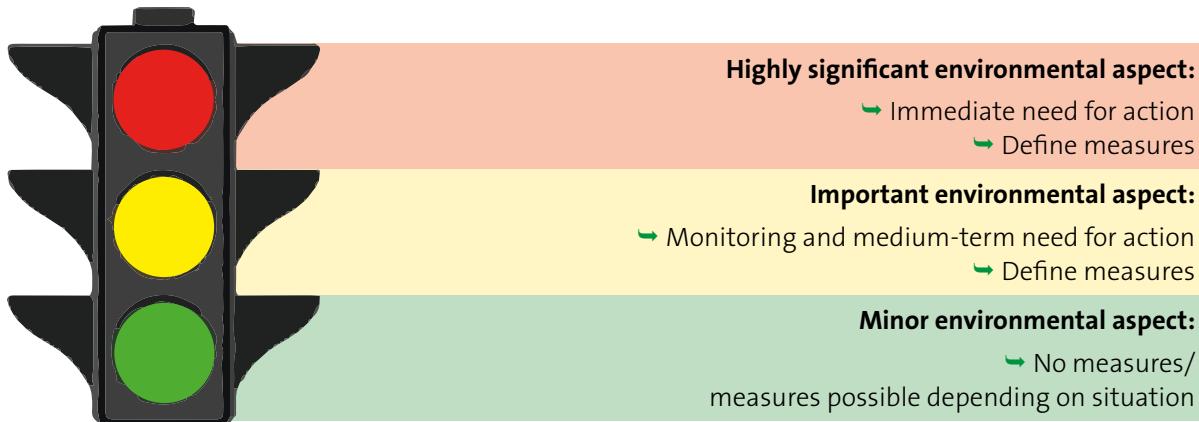
Activities, products and services have a certain environmental relevance in companies. This is outlined by the determination and assessment of the environmental aspects. The aspects are divided as follows:



We consider the life journey stages in our company according to:

- Material procurement,
- Production,
- Packaging / Dispatch,
- Repair / Maintenance,
- Supply and
- Disposal.

Our determined environmental aspects are verified and updated at least once a year or in case of relevant changes (e.g. activities, products etc.) as well as after emergency situations. The multidisciplinary approach is taken into account for the update, as the respective specialist divisions or departments are included. For a comprehensive consideration of the environmental aspects, we recorded the environmental impacts and binding obligations with regard to the respective activities, products and services. We assess the environmental aspects by means of the traffic light system.



The traffic light system shown above shows where the need for action and measures are required. This ensures that in the event of a highly significant environmental aspect, suitable solutions are immediately sought. In comparison, monitoring is required in case of important environmental aspects. Where possible, the measures are intended to maintain the status quo or achieve an improvement. Depending on the measure, this means an important environmental aspect can become a minor environmental aspect.

Documentation of the regular determination and assessment of the environmental aspects and effects as well as action plans is archived accordingly.

## 5.2 Description of the important environmental aspects

Once the aspects were assessed, many "minor environmental aspects" with status "green" and no "highly significant environmental aspects" with the status "red" were determined. The minor environmental aspects are recorded and documented, but only have minor environmental relevance. Despite weak influence of the "minor environmental aspects", two points must be mentioned. Because for deliveries between RZB Rudolf Zimmermann, Bamberg GmbH and SONLUX Lighting GmbH, reusable packaging is now used. Query points for the environment have been added for the supplier rating as well. Our focus of observation continues to be mainly on the important environmental aspects and their effects, as there might be a greater risk here for the environment by our company.

The following important environmental aspects are found in the company, which show the status "yellow" in accordance with our traffic light system:

### Direct aspects

- Waste generation/recycling
- Waste heat from machines and systems
- Use of energies
- Use of hazardous substances
- Use of fuel
- Risk of emergency/environmental situations
- Employee behaviour (already covered by the other direct aspects).

## **Waste generation/recycling**

Different volumes of hazardous and non-hazardous waste are generated by the processes. These are collected and stored at suitable collection points in the company correctly sorted, to conserve resources by recycling them. In case of waste which cannot be recycled, it is disposed of properly.

## **Energy and emissions**

By using different energies, such as natural gas, heating oil (only in Bamberg), fuels, electricity and propane, we consume certain amounts of resources and generate emissions into the environment. To be able to better control, monitor and further improve energy flows in future, the establishment of a building control system was started in the company. A detailed explanation on this topic is described under 8. environmental objectives 2024 – 2028.

As a side effect when consuming the respective energies on the machines, waste heat is generated. This is partially used for heating our halls. Performing regular checks through a chimney sweep ensures that the limit values for the facilities that use natural gas and heating oil are adhered to. By using a fleet in accordance with the current state of the art, we try to minimise our fuel consumption and emissions generated. The use of electricity depends on the processes, the produced products in manufacturing as well as other consumers, i.e. illumination within the company. We already try to minimise consumption with our own illumination systems in accordance with the current state of the art, as well as with optimised process programming of the machines. We use propane for shrinking films in dispatch. Consumption depends on the goods, which must be packaged according to customer or internal specifications.

## **Risk of emergency/environmental situations**

Preparation for emergencies has a very high priority for our company. This is because we reduce the impact on material damage as well as the risk for our employees, visitors and external service providers in the event of an emergency or environmental situation. We have therefore taken suitable measures for emergency prevention. These include fire protection facilities, emergency files, emergency exercises and authorised persons (fire prevention officer, fire protection assistant, sprinkler supervisors (only in Bamberg), first aiders etc.).

## **Hazardous substances**

Due to certain processes in the company, it is not possible to completely avoid the use of hazardous substances. It is however attempted to use or test alternative substances in the processes to reduce hazardous substances. If it is not possible to do without, the risk for people and the environment is kept as low as possible through occupational safety measures and employee training.

### **Indirect aspects**

- Commissioning of forwarding agents

### **Commissioning of forwarding agents**

We commission forwarding agents for material procurement to have raw materials, auxiliary materials and operating materials as well as spare parts for our products delivered. The transport of these goods generates emissions into the environment. To keep transport emission values as low as possible, we avoid airfreight and use long pre-disposition times.

# 6. Overview of EMAS core indicators according to site

To maintain and further develop the environment management system in accordance with EMAS at both sites RZB Rudolf Zimmermann, Bamberg GmbH and Sonlux Lighting GmbH, we follow our core indicators for the period from 2022 to 2024.

## Site: Bamberg and Sondershausen

The hours worked were defined as reference value. They were verified by means of statistics, so that our company is reflected by a suitable value.

Site	Reference value	2022	2023	2024
Bamberg	Hours worked	767,784 h	745,701 h	767,489 h
Sondershausen	Hours worked	147,690 h	136,332 h	148,154 h

In addition, further reference values, Heated space in Bamberg, Heated area in Sondershausen and Employees was selected. These provide a clear statement in the respective divisions.

Site	Reference value	2022	2023	2024
Bamberg	Heated space	352,470 m <sup>3</sup>	352,470 m <sup>3</sup>	352,470 m <sup>3</sup>
Bamberg	Employees	641	656	685
Sondershausen	Heated area	14,156 m <sup>2</sup>	14,156 m <sup>2</sup>	14,156 m <sup>2</sup>
Sondershausen	Employees	103	95	107

## 6.1 Energy

### Site: Bamberg

How our company has also developed further over its long existence is reflected in the use of energy sources. This is because we have access to different energies. These include:

- Electricity
- Natural gas
- Heating oil
- Fuel
- District heating
- Propane

For natural gas and heating oil, we use a proportion of the energy for the processes in surface technology. The remainder is used for heating specific hall sections. In addition to heating the buildings on site, we use district heating. This energy is supplied to us via the local waste incineration plant. Our heat energy is derived from these 3 energies, on average 2,846,358 kWh. We determined the key energy figures "Heat energy carrier/hours worked" as well as "Heat energy carrier/heated space" for this purpose. The key figures are adjusted following a more precise data basis, and substantiated. Comparison of the values between 2022

and 2024 for natural gas shows that we used a lot less natural gas in 2023 than in previous years. This can be traced back to the energy crisis in 2023, as it was temporarily attempted to keep consumption low with respective measures (e.g. utilisation of surface technology etc.). Furthermore, a low value is evident for heating oil consumption between 2023 and 2024. This can be attributed to the test that district heating was used for the exhibition "Light and Building". This also explains the decreased value from 2023 to 2024 for district heating. In summary, it can be said that the heat energy sources decreased in 2024, as different energy sources play a role for heating the halls.

The consumption of propane is, as already mentioned in 5.2 Description of the important environmental aspects, section "Energy and emissions" used for shrinking films in dispatch and depends on the goods to be packaged.

## Fuels

Types of fuel		
Diesel	Petrol	Electricity
<ul style="list-style-type: none"> <li>• Fleet</li> <li>• Emergency power supply</li> </ul>	<ul style="list-style-type: none"> <li>• Fleet</li> </ul>	<ul style="list-style-type: none"> <li>• Fleet</li> </ul>
Our fleet requires all three types of fuel and is a large consumer in this category.		

Now we come to our important energy user "Electricity". As already mentioned in 5.2. Description of the important environmental aspects, section "Energy and emissions", this is required for the manufacturing of our products, for respective processes as well as additional consumers.

What is positive here is that our service provider supplies electricity from renewable energies. In return, we feed on average 842,066 kWh of electricity from the PV plant<sup>1</sup> into the network at the Bamberg site.

Energy source	2022	2023	2024
Total energy consumption	9,740,172 kWh	9,207,938 kWh	9,342,591 kWh
Electricity consumption	3,255,141 kWh	2,899,156 kWh	2,964,699 kWh
Natural gas consumption	2,314,777 kWh	1,743,843 kWh	2,145,676 kWh
Heating oil consumption	171,009 kWh	92,036 kWh	131,519 kWh
Fuel consumption and electric vehicle consumption	1,540,221 kWh	1,864,292 kWh	1,856,950 kWh
District heating	2,444,960 kWh	2,588,700 kWh	2,224,690 kWh
Propane	14,064 kWh	19,911 kWh	19,057 kWh
Total heat energy source	2,964,329 kWh	2,937,028 kWh	2,637,718 kWh
Total consumption renewable energies (electricity)	3,255,141 kWh	2,899,156 kWh	2,964,699 kWh
Total generation renewable energies	910,389 kWh	819,089 kWh	796,720 kWh

<sup>1</sup> Owner of the PV plant is Holding, Rudolf Zimmermann GmbH

Key energy figures	2022	2023	2024
Total energy consumption/ hours worked	12.69 kWh/h	12.35 kWh/h	12.17 kWh/h
Proportion of renewable energies/ total energy consumption	43 %	40 %	40 %
Electricity consumption/ hours worked	4.24 kWh/h	3.89 kWh/h	3.86 kWh/h
Natural gas consumption/ hours worked	3.01 kWh/h	2.34 kWh/h	2.80 kWh/h
Heating oil consumption/ hours worked	0.22 kWh/h	0.12 kWh/h	0.17 kWh/h
Heat energy source/ hours worked	3.86 kWh/h	3.94 kWh/h	3.44 kWh/h
Heat energy source/ heated space	8.41 kWh/m³	8.33 kWh/m³	7.48 kWh/m³
Fuel consumption - consumption - electric vehicles/hours worked	2.01 kWh/h	2.50 kWh/h	2.42 kWh/h
District heating/hours worked	3.18 kWh/h	3.47 kWh/h	2.90 kWh/h
Propane/hours worked	0.02 kWh/h	0.03 kWh/h	0.02 kWh/h
Total consumption renewable energies/hours worked	4.24 kWh/h	3.89 kWh/h	3.86 kWh/h
Total generation renewable energies/hours worked	1.19 kWh/h	1.10 kWh/h	1.04 kWh/h

### Site: Sondershausen

Our company uses a wide variety of energy sources to conserve resources. These are structured as follows:

- Electricity
- Natural gas
- Fuel
- Propane

Natural gas is mostly used for a boiler and radiant heater for the heating of production, storage and office areas as well as sanitary facilities. We use the remainder for the generation of electricity and heat with our combined heat and power plant. Our average heat energy of 1,250,297 kWh is derived from these systems. We determined the key energy figures "Heat energy carrier/hours worked" as well as "Heat energy carrier / heated area" for this purpose.

We need the energy source "Electricity" for the manufacturing of our products, the production of plastic parts consumes the largest part in this case. The remainder is used for the illumination as well as additional consumers. The in-house use of the electric power generation from the combined heat and power plant and the switching of our electricity tariff to green electricity in October 2024 must be mentioned here as a positive. Furthermore, we feed on average 202,992 kWh of electricity per year from the PV plant<sup>2</sup> into the network at the Sondershausen site.

<sup>2</sup> Owner of the PV plant is Holding, Rudolf Zimmermann GmbH

The third largest energy source is the fuel, which we mainly need as Diesel for our fleet. A minor part is used for maintaining the grounds at our premises. "Petrol" is used here as fuel.

The energy source "propane" represents by far the lowest proportion in the total consumption and is used for the shrinking of films in dispatch. The use of this gas depends on the specifications of our customers as well as the goods to be packaged.

Energy source	2022	2023	2024
Total energy consumption	2,623,978 kWh	2,313,958 kWh	2,612,001 kWh
Electricity consumption	968,416 kWh	829,291 kWh	941,377 kWh
Natural gas consumption	1,537,471 kWh	1,364,937 kWh	1,534,132 kWh
Fuel consumption	117,666 kWh	119,305 kWh	136,067 kWh
Propane	425 kWh	425 kWh	425 kWh
Total heat energy source	1,304,796 kWh	1,137,541 kWh	1,291,152 kWh
Total consumption renewable energies (electricity)	0 kWh	0 kWh	176,851 kWh
Total generation renewable energies	223,600 kWh	198,153 kWh	187,222 kWh

Key energy figures	2022	2023	2024
Total energy consumption/ hours worked	17.77 kWh/h	16.97 kWh/h	17.63 kWh/h
Proportion of renewable energies/ total energy consumption	9 %	9 %	14 %
Electricity consumption/ hours worked	6.56 kWh/h	6.08 kWh/h	6.35 kWh/h
Natural gas consumption/ hours worked	10.41 kWh/h	10.01 kWh/h	10.35 kWh/h
Heat energy source/ hours worked	8.83 kWh/h	8.34 kWh/h	8.71 kWh/h
Heat energy source/heated area	92.17 kWh/m <sup>2</sup>	80.36 kWh/m <sup>2</sup>	91.20 kWh/m <sup>2</sup>
Fuel consumption/ hours worked	0.80 kWh/h	0.88 kWh/h	0.92 kWh/h
Propane/hours worked	0.0029 kWh/h	0.0031 kWh/h	0.0029 kWh/h
Total consumption renewable energies/hours worked	0.00 kWh/h	0.00 kWh/h	1.19 kWh/h
Total generation renewable energies/hours worked	1.51 kWh/h	1.45 kWh/h	1.26 kWh/h

The values of the core indicators total energy consumption, electricity consumption, natural gas consumption and heat energy source overall at the "Sondershausen" site were updated from 2022 to 2024. Due to incorrect calculation of the mentioned values, they could not be reflected correctly.

## 6.2 Emissions

Our company generates different greenhouse gases, such as carbon dioxide, nitrogen oxides, sulphur dioxide and particulate matter through the consumption of natural gas, heating oil (only Bamberg), fuel, propane, electricity and district heating. Therefore, the use of these resources has a significant effect on the environment. However, the CO<sub>2</sub> emissions have a high significance for us compared to the other emissions. These are also generated in the combustion of the respective energy sources, but are lower in terms of quantity.

Adding to this are the CO<sub>2</sub> emissions of our air conditioning or room ventilation systems. The coolant is refilled or replaced as required by means of servicing, maintenance as well as repairs. The quantity of coolant used in this process is also taken into account for the CO<sub>2</sub> emissions.

When comparing the year 2023 with 2024, it can be seen that at the Bamberg site, there is a change of CO<sub>2</sub>-equivalent emissions from energy sources and coolants. This was influenced by the CO<sub>2</sub> value of an energy source, as a supplier-specific emission factor was made available to us. The Sondershausen site also shows changes or savings. In 2024, only very little coolant was needed for maintenance tasks. Therefore, the overall CO<sub>2</sub>-equivalent emission value was decreased.

### Site: Bamberg

Emissions	2022	2023	2024
CO <sub>2</sub> -equivalent emissions from energy sources and coolants <sup>1</sup>	1,304 tCO <sub>2</sub> e	1,347 tCO <sub>2</sub> e	957 tCO <sub>2</sub> e
NO <sub>x</sub> emissions	1,390 kgNOx	1,612 kgNOx	1,628 kgNOx
SO <sub>2</sub> emissions	333 kgSO <sub>2</sub>	396 kgSO <sub>2</sub>	406 kgSO <sub>2</sub>
PM emissions	109 kgPM	133 kgPM	136 kgPM

Emission key figures	2022	2023	2024
CO <sub>2</sub> -equivalent emissions/ hours worked	0.0017 t/h	0.0018 t/h	0.0012 t/h
NO <sub>x</sub> emissions/ hours worked	0.0018 kg/h	0.0022 kg/h	0.0021 kg/h
SO <sub>2</sub> emissions/ hours worked	0.0004 kg/h	0.0005 kg/h	0.0005 kg/h
PM emissions/ hours worked	0.0001 kg/h	0.0002 kg/h	0.0002 kg/h

<sup>1</sup> The conversion factors from the DBEIS were used via the "tanso" platform.

**Site: Sondershausen**

<b>Emissions</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>
CO <sub>2</sub> -equivalent emissions from energy sources and coolants <sup>1</sup>	606 tCO <sub>2</sub> e	639 tCO <sub>2</sub> e	551 tCO <sub>2</sub> e
NO <sub>x</sub> emissions	190.8 kgNOx	180.6 kgNOx	205.5 kgNOx
SO <sub>2</sub> emissions	26.3 kgSO <sub>2</sub>	26.3 kgSO <sub>2</sub>	30.3 kgSO <sub>2</sub>
PM emissions	9.8 kgPM	9.7 kgPM	11.1 kgPM

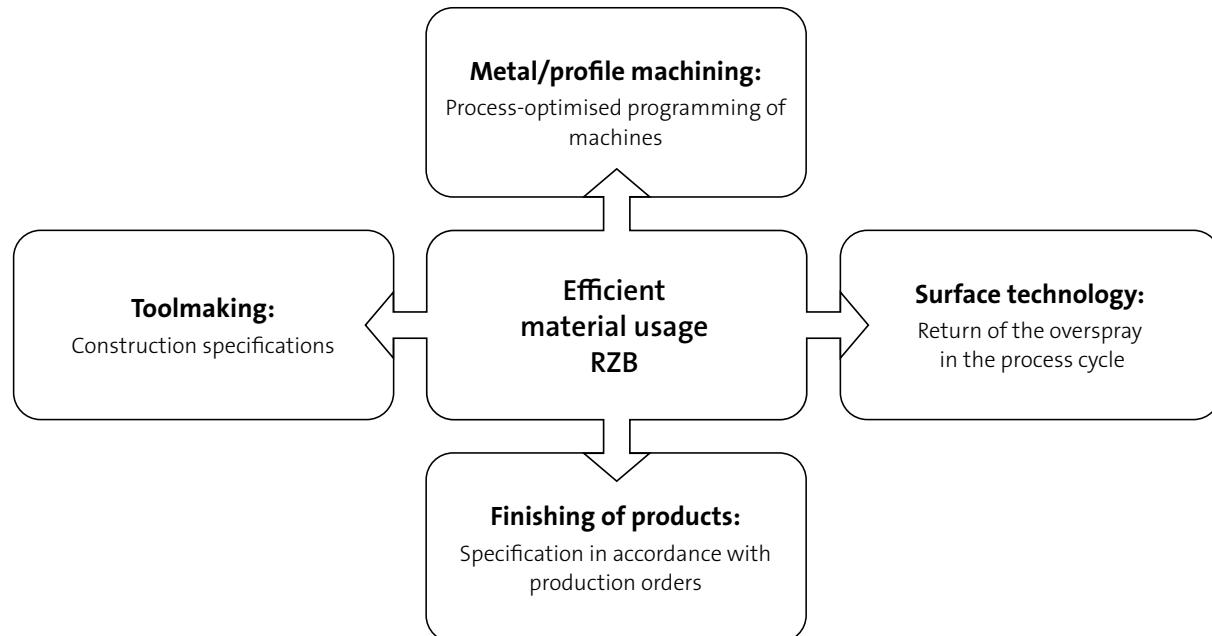
<b>Emission key figures</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>
CO <sub>2</sub> -equivalent emissions/ hours worked	0.0041 t/h	0.0047 t/h	0.0037 t/h
NO <sub>x</sub> emissions/ hours worked	0.0013 kg/h	0.0013 kg/h	0.0014 kg/h
SO <sub>2</sub> emissions/ hours worked	0.0002 kg/h	0.0002 kg/h	0.0002 kg/h
PM emissions/ hours worked	0.0001 kg/h	0.0001 kg/h	0.0001 kg/h

<sup>1</sup> The conversion factors from the DBEIS were used via the "tanso" platform.

## 6.3 Material usage

Optimum material usage is a crucial component to use low quantities of resources and lower costs, without the specified functions and properties being impacted. We achieve this through efficient use of materials, which is structured as follows:

### Site: Bamberg

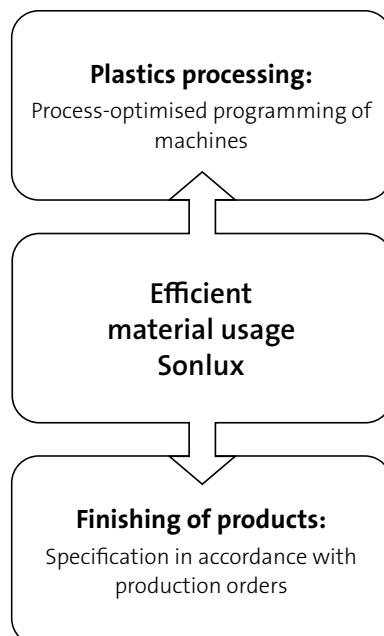


Reusable materials	2022	2023	2024
<b>Raw/auxiliary materials (total)</b>	1,979,197 kg	1,699,001 kg	1,821,639 kg
Metals ferrous and non-ferrous	1,116,705 kg	968,632 kg	1,090,826 kg
Ballast and electronics	180,960 kg	157,863 kg	181,241 kg
Cables/lines	35,459 kg	40,972 kg	45,916 kg
Plastics	259,340 kg	198,132 kg	162,318 kg
Other raw/auxiliary materials	386,733 kg	333,401 kg	341,338 kg
<b>Operating materials</b>	451,406 kg	418,977 kg	455,825 kg
<b>Trade goods</b>	2,525,782 kg	2,543,769 kg	2,286,944 kg

Material key figures	2022	2023	2024
Raw/auxiliary materials used (total)/ hours worked	2.58 kg/h	2.28 kg/h	2.37 kg/h
Metals ferrous and non-ferrous/hours worked	1.45 kg/h	1.30 kg/h	1.42 kg/h
Ballast and electronics/ hours worked	0.24 kg/h	0.21 kg/h	0.24 kg/h
Cables and lines/ hours worked	0.05 kg/h	0.05 kg/h	0.06 kg/h
Plastics/hours worked	0.34 kg/h	0.27 kg/h	0.21 kg/h
Other raw/auxiliary materials/ hours worked	0.50 kg/h	0.45 kg/h	0.44 kg/h
Operating materials/ hours worked	0.59 kg/h	0.56 kg/h	0.59 kg/h
Trade goods/ hours worked	3.29 kg/h	3.41 kg/h	2.98 kg/h

The values of the core indicators for raw/auxiliary materials (total), plastics and other raw/auxiliary materials at the "Bamberg" site were updated from 2022 to 2024, as faulty system values did not correctly reflect the values. The material usage is influenced by the customer's demand for the respective product version, which in turn is reflected in the values for the materials. Production for the "Linedo" product has been extended between approx. 2022 and 2024. Material usage for "cables/lines" thus increases over the years.

#### Site: Sondershausen

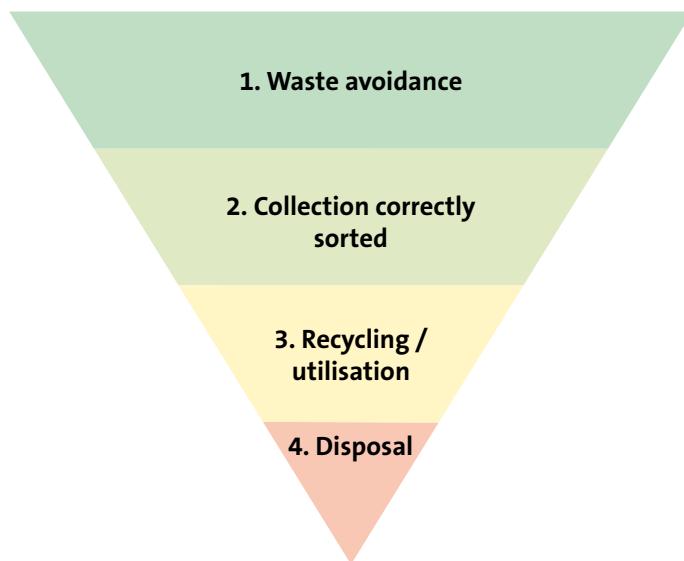


<b>Reusable materials</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>
<b>Raw/auxiliary materials (total)</b>	511,022 kg	414,343 kg	466,421 kg
Metals ferrous and non-ferrous	33,937 kg	21,370 kg	26,915 kg
Ballast and electronics	41,733 kg	42,689 kg	30,153 kg
Cables and lines	25,933 kg	23,711 kg	23,224 kg
Plastics	312,903 kg	233,740 kg	323,749 kg
Other raw/auxiliary materials	96,517 kg	92,834 kg	62,379 kg
<b>Operating materials</b>	107,589 kg	92,928 kg	98,159 kg
<b>Trade goods</b>	65,249 kg	86,387 kg	75,392 kg

<b>Material key figures</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>
Raw/auxiliary materials used (total)/ hours worked	3.46 kg/h	3.04 kg/h	3.15 kg/h
Metals ferrous and non-ferrous/hours worked	0.23 kg/h	0.16 kg/h	0.20 kg/h
Ballast and electronics/ hours worked	0.28 kg/h	0.31 kg/h	0.22 kg/h
Cables and lines/ hours worked	0.18 kg/h	0.17 kg/h	0.17 kg/h
Plastics/hours worked	2.12 kg/h	1.71 kg/h	2.37 kg/h
Other raw/auxiliary materials/ hours worked	0.65 kg/h	0.68 kg/h	0.46 kg/h
Operating materials/ hours worked	0.73 kg/h	0.68 kg/h	0.66 kg/h
Trade goods/ hours worked	0.44 kg/h	0.63 kg/h	0.51 kg/h

## 6.4 Waste

For both our companies, the principle of waste hierarchy applies:



With our actions, we fulfil our duty to protect the environment and conserve resources. For this purpose, we commissioned qualified waste management facilities for disposal of the respective waste fractions. The quantities disposed of for the respective fractions are documented in the schedule of legal provisions concerning waste according to disposal companies, and are included in our superordinate list of key figures. Waste legislation distinguishes between non-hazardous and hazardous waste.

### Site: Bamberg

Waste	2022	2023	2024
Total amount of waste	757,360 kg	727,113 kg	718,635 kg
Hazardous waste (total)	20,730 kg	30,216 kg	3,696 kg

#### The largest fractions of this are:

AVV (European Waste Catalogue) no. 15 01 01 Department store industry carton / paper	168,700 kg	139,540 kg	151,800 kg
AVV no. 20 01 38 Waste wood All-III treated industry	137,220 kg	108,950 kg	59,370 kg
AVV no. 15 01 03 waste wood pallets All-III treated	0 kg	0 kg	82,340 kg
AVV no. 20 03 01 Residual waste fraction	86,970 kg	83,190 kg	62,400 kg
AVV no. 17 04 05 Mixed scrap	54,980 kg	59,230 kg	33,345 kg
AVV no. 12 01 02 New sheet metal waste	162,890 kg	160,840 kg	204,210 kg
AVV no. 11 01 07* Potassium hydroxide solution	8,440 kg	22,270 kg	0 kg

Waste key figures	2022	2023	2024
Total waste volume/ hours worked	0.99 kg/h	0.98 kg/h	0.94 kg/h
Hazardous waste (total)/ hours worked	0.03 kg/h	0.04 kg/h	0.00 kg/h
AVV no. 15 01 01 Department store industry carton/paper/ hours worked	0.22 kg/h	0.19 kg/h	0.20 kg/h
AVV no. 20 01 38 Waste wood All-III treated industry/hours worked	0.18 kg/h	0.15 kg/h	0.08 kg/h
AVV no. 15 01 03 waste wood pallets All-III treated / hours worked	0 kg/h	0 kg/h	0.11 kg/h
AVV no. 20 03 01 Residual waste frac- tion/ hours worked	0.11 kg/h	0.11 kg/h	0.08 kg/h
AVV no. 17 04 05 Mixed scrap/ hours worked	0.07 kg/h	0.08 kg/h	0.04 kg/h
AVV no. 12 01 02 New sheet metal waste/ hours worked	0.21 kg/h	0.22 kg/h	0.27 kg/h
AVV no. 11 01 07* Potassium hydroxide solution/hours worked	0.01 kg/h	0.03 kg/h	0.00 kg/h

In 2024, the overall amount of waste at the Bamberg site is 718,635 kg, of which 3,696 kg is hazardous waste. As can be derived from the figures, the largest part of the waste generated is non-hazardous. In addition, in 2024, the List of Wastes regulation no. (AVV no.) for waste wood All-III treated was changed, as the disposal involves packaging made of wood/ waste wood.

The hazardous waste is mainly generated by our waste product "potassium hydroxide solution", which is produced during water treatment in surface technology. In 2024, by way of exception, no potassium hydroxide solution was disposed of. This can be seen in the table line "AVV no. 11 01 07\* Potassium hydroxide solution". This significantly reduces our hazardous waste.

**Site: Sondershausen**

Waste	2022	2023	2024
Total amount of waste	61,814 kg	79,295 kg	53,968 kg
Hazardous waste (total)	1,504 kg	6,475 kg	5,007 kg

**The largest fractions of this are:**

AVV 15 01 01 Paper and carton packaging	29,840 kg	33,326 kg	20,600 kg
AVV 20 03 01 Mixed municipal waste	12,490 kg	11,420 kg	13,920 kg
AVV 17 04 05 Mixed scrap	2,520 kg	10,600 kg	6,820 kg
AVV 17 02 02 Glass	14,085 kg	7,910 kg	0 kg
AVV 13 02 05* Waste oil	0 kg	4,950 kg	1,980 kg

Waste key figures	2022	2023	2024
Total waste volume/ hours worked	0.42 kg/h	0.58 kg/h	0.36 kg/h
Hazardous waste (total)/ hours worked	0.01 kg/h	0.05 kg/h	0.03 kg/h
AVV 15 01 01 Paper and carton packaging/hours worked	0.20 kg/h	0.24 kg/h	0.15 kg/h
AVV 20 03 01 Mixed municipal waste/ hours worked	0.08 kg/h	0.08 kg/h	0.10 kg/h
AVV 17 04 05 Mixed scrap/ hours worked	0.02 kg/h	0.08 kg/h	0.05 kg/h
AVV 17 02 02 Glass/ hours worked	0.10 kg/h	0.06 kg/h	0.00 kg/h
AVV 13 02 05* Waste oil/ hours worked	0.00 kg/h	0.04 kg/h	0.01 kg/h

In 2024, the overall amount of waste at the Sondershausen site is 53,968 kg, of which 5,007 kg is hazardous waste. The amount of waste in 2024 mainly decreased by saving paper and carton packaging waste, which is mainly due to switching some plastic parts from external procurement to own production. There is no longer a need for the disposal of glass at Sonlux, as there is no more glass waste generated in production. The hazardous waste in 2024 mainly consisted of waste oil, which is produced during machine maintenance.

## 6.5 Water/waste water

The demand for water worldwide is increasing, be it due to the growing global population or consumer requirements. As a consequence, water is an important resource, which has been taken into account by our company through conscientious handling during operations.

### Site: Bamberg

Water	2022	2023	2024
Total water consumption	5,511,920 l	4,804,800 l	4,633,460 l
Process water - ST <sup>1</sup>	1,127,000 l	915,000 l	1,107,461 l
Remaining water consumption	4,384,920 l	3,889,800 l	3,525,999 l

Water key figures	2022	2023	2024
Total water consumption / hours worked	7.18 l/h	6.44 l/h	6.04 l/h
Total water consumption / employee	8,599 l/ employee	7,324 l/ employee	6,764 l/ employee
Process water - ST <sup>1</sup> / hours worked	1.47 l/h	1.23 l/h	1.44 l/h
Remaining water consumption/ hours worked	5.71 l/h	5.22 l/h	4.59 l/h
Remaining water consumption/ employee	6,841 l/ employee	5,930 l/ employee	5,147 l/ employee

The requirement of our surface technology is 2 m<sup>3</sup> water (completely desalinated) per hour of operation, which corresponds to a daily consumption of 32 m<sup>3</sup> during two-shift operation. With the treatment of the collected wastewater, we only need approx. 5 m<sup>3</sup> of potable water per day from the public network. Depending on the utilisation of ST<sup>1</sup>, annual consumption of process water rises or falls. The difference between purchase quantity and water consumption surface technology arises from our consumption by sanitary facilities and canteen. Further savings must still be analysed more closely. Therefore, there are no significant changes with regard to water consumption for the time being.

### Site: Sondershausen

Water	2022	2023	2024
Water consumption	1,217,000 l	1,233,000 l	1,237,000 l
Water key figures	2022	2023	2024
Water consumption / hours worked	8.24 l/h	9.04 l/h	8.35 l/h
Water consumption/employee	11,816 l/ employee	12,979 l/ employee	11,561 l/ employee

No water is needed at the site for manufacturing processes. The water consumption is generated by the sanitary facilities and office kitchens for the employees.

<sup>1</sup> ST is the abbreviation for surface technology.

## 6.6 Biodiversity

### Site: Bamberg

As in previous years, the total surface area at the Bamberg site is 86,560 m<sup>2</sup>. This area is composed of the sealed area at 74,876 m<sup>2</sup> as well as the green area at 11,685 m<sup>2</sup>. Despite our production and administrative activity taking up a large part of the sealed area, including footpaths and cycle tracks, it was still possible to preserve or create green spaces. We were able to create roof greening on some buildings or passages. The parking areas are only partially sealed, so that the rainwater can drain away naturally. Our areas of fruit trees and vines create an area close to nature. This provides insects with a natural environment. We make fruit from our own trees available to our employees in the canteen. This offer of fresh fruit supports employee health.



Ground	2022	2023	2024
Total area	86,560 m <sup>2</sup>	86,560 m <sup>2</sup>	86,560 m <sup>2</sup>
Sealed area	74,876 m <sup>2</sup>	74,876 m <sup>2</sup>	74,876 m <sup>2</sup>
Areas close to nature at the site	11,685 m <sup>2</sup>	11,685 m <sup>2</sup>	11,685 m <sup>2</sup>

Key figures - biodiversity	2022	2023	2024
Total area usage/ hours worked	0.11 m <sup>2</sup> /h	0.12 m <sup>2</sup> /h	0.11 m <sup>2</sup> /h
Sealed area/ hours worked	0.10 m <sup>2</sup> /h	0.10 m <sup>2</sup> /h	0.10 m <sup>2</sup> /h
Area close to nature at the site/ hours worked	0.02 m <sup>2</sup> /h	0.02 m <sup>2</sup> /h	0.02 m <sup>2</sup> /h

### Site: Sondershausen

The total area at the Sondershausen site is 101,573 m<sup>2</sup>, of which 34,820 m<sup>2</sup> are sealed areas and 66,753 m<sup>2</sup> are green spaces. Only approx. one-third of our total area was sealed and consists of production, storage and administrative buildings as well as traffic areas. Our green spaces make up the largest part, of which approx. 40,000 m<sup>2</sup> are not mowed. These spaces include meadows as well as trees and bushes, which are partially located at the edge of the area. Our area close to nature provides a suitable habitat for insects and small animals. At times, the trees and bushes are also used by larger wild animals, such as deer and foxes. In addition, we make our meadow area available to a farmer to produce hay.



Ground	2022	2023	2024
Total area	101,573 m <sup>2</sup>	101,573 m <sup>2</sup>	101,573 m <sup>2</sup>
Sealed area	34,820 m <sup>2</sup>	34,820 m <sup>2</sup>	34,820 m <sup>2</sup>
Areas close to nature at the site	66,753 m <sup>2</sup>	66,753 m <sup>2</sup>	66,753 m <sup>2</sup>

Key figures - biodiversity	2022	2023	2024
Total area usage / hours worked	0.69 m <sup>2</sup> /h	0.75 m <sup>2</sup> /h	0.69 m <sup>2</sup> /h
Sealed area/ hours worked	0.24 m <sup>2</sup> /h	0.26 m <sup>2</sup> /h	0.24 m <sup>2</sup> /h
Area close to nature at the site/ hours worked	0.45 m <sup>2</sup> /h	0.49 m <sup>2</sup> /h	0.45 m <sup>2</sup> /h

## 6.7 Specific indicators

The industry-specific reference document for the electrical and electronic equipment industry (sector reference document no. 2019/63) applies for us in addition to the EMAS Regulation 1221/2009. In the first instance, it was important to us to view and assess the specific document with regard to applicable topics for our company. For the future, we have planned to implement the applicable environmental performance indicators or improvement measures bit by bit in practice. Currently, we have not implemented any of the industry-specific key figures or improvements. In 2025, the indicator “Energy use of the cooling system per turnover unit” is added to our overview of core indicators.

# 7. Compliance with legislation

In order to improve the legal clarity within the company regarding the environmental field, we implemented a schedule of legal provisions. Please find a short extract of the most important requirements:

- Waste (AbfBeauftrV (Waste Manager Regulation), BattG (Batteries Act), ElektroG (Electrical and Electronic Equipment Act), GewAbfV (Commercial Waste Regulation), KrWG (Closed Substance Cycle Waste Management Act), NachwV (Ordinance on Waste Recovery and Disposal Records))
- Chemicals (GefStoffV (Ordinance on Hazardous Substances), REACH-VO (REACH Regulation), RoHS (Restriction of Hazardous Substances Directive))
- Energy (EnEfG (Energy Efficiency Act), GEG (Buildings Energy Act), EnWG (Energy Industry Act), EDL-G (amendments of the Energy Services Act), EnFG (Act for Financing the Energy Transition in the Electricity Sector), StromNEV (Electricity Network Fee Regulation Ordinance), StromStG (Electricity Tax Act), EnSTransV (Energy and Electricity Tax Transparency Regulation))
- Hazardous goods/transport (ADR, GbV)
- Immission protection (VO (Regulation) 2024/573, BImSchG (Federal Immission Control Act), 1. BImSchV (Federal Pollution Control Ordinance))
- Environmental management (EMAS Regulation)(EC) 1221/2009)
- Water (Federal Water Act, AwSV (Handling of Substances Hazardous to Water), TREN OG (Technical Rules on the discharge of collected rain water into overground waters without causing damage))

### Note:

**The extract does not reflect the full schedule of legal provisions, but is intended to give an idea as to which legislation we need to refer to as a company.**

It is regularly verified that the schedule is up-to-date. This takes place in collaboration between an external consulting firm and the environmental management officers as well as the coordinator for environmental management.

By using a digital legal database in combination with our software system, we are notified of applicable legal and official environmental requirements. The necessary obligations for our company can be derived from the legislation with the software, and forwarded to the relevant departments. These verify the obligation, and document the information in the software.

The regular implementation of internal and external environmental audits ensures that compliance with environmentally relevant legal and official requirements in the company is verified. The auditors selected for this purpose have the technical qualification for the assessment.

## 8. Environmental objectives 2024-2028

The environmental policy forms the basis of our environmental commitment. The following 3 environmental objectives can be derived from this policy:

- Reduce CO<sub>2</sub> emissions
- Improve energy efficiency
- Optimise safety aspects

The environmental objectives are documented in an environment programme and are verified at regular intervals by environmental management officers as well as the coordinator for environmental management, and adapted as required. To achieve the objectives, superordinate measures as well as individual measures are specified, to improve the environmental performance step by step. Responsibilities and deadlines are fixed for each individual measure. The required resources for implementation are discussed and substantiated in meetings for implementation.

In addition to the environmental policy, the environmental aspects also play an important role with regard to the environmental programme, as the individual measures in the programme can coincide with or match the measures of the environmental aspects. As can be seen, the measures can arise from different sectors. Therefore, the environmental programme can be updated through audits, inspections, management reviews, employee's ideas as well as the annual resource planning by the executive board.

The following table shows our environmental programme for the Bamberg and Sondershausen sites. The colours in column "Deadline" show the status of the individual measures, as follows:

- green → individual measure completed
- yellow → individual measure in progress
- orange → deadline for individual measure still to be defined (individual measure deferred)

For the individual measure "Expand fleet to electric vehicles, where possible (RZB) - 2024 acquisition of 5 electric vehicles to replace conventional drive" (no. 1), we received 3 instead of 5 electric vehicles in 2024. The 2 electric vehicles not ordered in 2024 are taken into account for the measure with consecutive number 2. In 2025, the individual measures with consecutive number 11 and 12.1 have already been implemented and completed. To record and evaluate the saving due to replacing the compressor control (no.11), data are documented during running operation over a longer period of time. By improving the gas burners (no. 12.1), the saving could be achieved as planned.

The individual measure "Cooperation within the scope of a pilot project on the topic "SMART factory" (Leutenegger and Frei)" (no. 12.5) was set to "completed" status, as the prerequisites for the concept with the service provider had changed. The project thus became irrelevant for our company. The individual measures with consecutive numbers 12.0, 12.2, 12.3, 15, 16 and 17 were deferred for the time being, as the framework conditions need to be concretised. It was revealed in part that the measures with continuous numbers 12.0, 12.2 and 12.3 are not economical based on current information.

The individual measures with consecutive numbers 7, 8 and 22 could not be completed as planned by the end of 2024, as the organisational effort for their implementation demands more time. Furthermore, the individual measures "Extension of the fire protection equipment in halls 1 (canteen, FB3, PWE), 6 and 10" as well as „Extension of the fire protection equipment in halls 5, 5A, 5B and 5C" were restructured and rescheduled in the environmental programme.

The planned measures are already shown for the environmental programme.

Envi- ronm. objec- tive	Measure	Cons. no.	Individual measures	Responsibility	Dead- line	Target values for the expected gain (saving)	
						Resources	Costs (€)
Reduce CO <sub>2</sub> emissions	CO <sub>2</sub> footprint for the RZB Group	1	Expand fleet to electric vehicles, where possible (RZB) - 2024 acquisition of 5 electric vehicles to replace conventional drive	Member of the Executive Board (Administrations)	2024	-	-
	CO <sub>2</sub> footprint for the RZB Group	2	Expand fleet to electric vehicles, where possible (RZB) - 2025 acquisition of 5 electric vehicles to replace conventional drive	Member of the Executive Board (Administrations)	2025	-	-
	CO <sub>2</sub> footprint for the RZB Group	3	Switch at Sonlux to green electricity	Department: Procurement	End 2025	387 tCO <sub>2</sub> e	-
	CO <sub>2</sub> footprint for the RZB Group	4	Expand fleet to electric vehicles, where possible (RZB) - 2026 acquisition of 17 electric vehicles to replace conventional drive	Member of the Executive Board (Administrations)	2026	-	-
	CO <sub>2</sub> footprint for the RZB Group	5	Expand fleet to electric vehicles where possible (Sonus) - 2026 acquisition of 1 electric vehicle to replace conventional drive	Plant management Sonlux	2026	-	-
	CO <sub>2</sub> footprint for the RZB Group	6	Expand fleet to electric vehicles, where possible (RZB) - 2027 acquisition of 17 electric vehicles to replace conventional drive	Member of the Executive Board (Administrations)	2027	-	-



Image for no. 1 electric vehicle from fleet (charging station from the RZB ENERGY Program)

Environ. objective	Measure	Cons. no.	Individual measures	Responsibility	Deadline	Target values for the expected gain (saving)	
						Resources	Costs (€)
Improve energy efficiency	Structure of an energy monitoring system (RZB)	7	Create and introduce measuring point concept (clearly illustrate energy flows)	Department: Facility management	End 2024	-	-
	Structure of an energy monitoring system (Sonlux)	8	Create and introduce measuring point concept (clearly illustrate energy flows)	Sonlux department: Technical services	End 2024	-	-
	Reduction of energy source district heating (RZB)	9	Installation of energy valves in heating systems	Executive board	2025	92,056 kWh	6,444 €
	Reduction of energy source electricity (RZB)	10	Energetic conversion lighting installation	Member of the management (Operations)	2025	107,514 kWh	20,105 €
	Reduction of general energy source electricity (RZB)	11	Replacement of the compressor control	Member of the management (Operations)	2025	7,545 kWh	1,410 €
	Energetic optimisation of the powder coating plant	12.0	Reduction of the gas procurement of the burner	Member of the management (Operations)	tbd <sup>1</sup>	182,457 kWh	16,732 €
	Energetic optimisation of the powder coating plant	12.1	Improvement of the gas burner efficiency	Member of the management (Operations)	2025	19,608 kWh	825 €
	Energetic optimisation of the powder coating plant	12.2	Increase of the degree of utilisation of waste heat	Member of the management (Operations)	tbd <sup>1</sup>	307,565 kWh	18,435 €
	Energetic optimisation of the powder coating plant	12.3	Reduction of the required heat energy for the pretreatment of components (degreasing tank powder coating plant zone 1)	Member of the management (Operations)	tbd <sup>1</sup>	5,201 kWh	758 €

<sup>1</sup>tbd (to be defined).

Environ. objective	Measure	Cons. no.	Individual measures	Responsibility	Deadline	Target values for the expected gain (saving)	
						Resources	Costs (€)
Improve energy efficiency	Energetic optimisation of the powder coating plant	12.4	Saving of electrical energy during operation of the heat recovery plant	Member of the management (Operations)	2025	24,629 kWh	3,990 €
	Energetic optimisation of the powder coating plant	12.5	Cooperation within the scope of a pilot project on the topic "SMART factory" (Leutenegger and Frei)	Member of the management (Operations)	2025	-	-
	Reduction of energy source electricity (Sonlux)	13	Energetic conversion lighting installation	Sonlux department: Technical services	2025	61,488 kWh	13,281 €
	Reduction of energy source propane (RZB) and resources	14.1	Renewal of the shrink machine dispatch	Member of the executive board (Operations) / Department: Logistics	2026	19,386 kWh	3,625 €
	Reduction of energy source propane (RZB) and resources	14.2	Renewal of the shrink machine dispatch	Member of the executive board (Operations) / Department: Logistics	2026	2,571 kg (films)	16,993 €
	Extension of the solar installation (RZB)	15	Extension of the solar installation on the hall roofs	Executive board	tbd <sup>1</sup>	1,034,096 kWh	193,376 €
	Extension of the solar installation facade (RZB)	16	Extension of the solar installation on the hall facade	Executive board	tbd <sup>1</sup>	71,273 kWh	13,328 €
	Restoration of the facade hall 4 and A4 (RZB)	17	Optimise facade construction for hall 4 and 4A (window etc.)	Executive board	tbd <sup>1</sup>	-	-
	Checking the extension of the solar installation (Sonlux)	18	Check extension of the solar installation for the incoming goods hall as well as on the hall facade south side	Sonlux department: Technical services	End 2026	-	-
	Reduction of general energy source (RZB)	19	Replacement of skylights on the halls and conversion to electrical drives (no loss of compressed air)	Member of the management (Operations)	2027	-	-
	Check reduction of energy source gas (Sonlux)	20	Check concept to optimise the facade construction (insulation etc.)	Sonlux department: Technical services	End 2027	-	-
	Check reduction of general energy sources (Sonlux)	21	Check replacement of skylights for electrical drive (no loss of compressed air)	Sonlux department: Technical services	End 2027	-	-

<sup>1</sup>tbd (to be defined).

Envi- ronm. objec- tive	Measure	Cons. no.	Individual measures	Responsibility	Dead- line	Target values for the expected gain (saving)	
						Resources	Costs (€)
<b>Optimise safety aspect</b>	Extension of the fire protection equipment (RZB)	22	Extension of the fire protection equipment in halls 4 and 4A	Member of the management (Operations)	2024	82 %	-
	Extension of alarm system (Sonlux)	23	Creation of an alarm concept and attachment of additional signalling equipment	Sonlux department: Technical services	2025	-	-
	Extension of the fire protection equipment (RZB)	24.0	Extension of the fire protection equipment in hall 1 (canteen, FB3, PWE)	Member of the management (Operations)	2nd quarter 2026	84.1 %	-
	Extension of the fire protection equipment (RZB)	25.0	Extension of the fire protection equipment in hall 5	Member of the management (Operations)	4nd quarter 2026	84.5 %	
	Extension of the fire protection equipment (RZB)	24.1	Extension of the fire protection equipment in hall 10	Member of the management (Operations)	2nd quarter 2027	87.2 %	
	Extension of the fire protection equipment (RZB)	25.1	Extension of the fire protection equipment in hall 5B	Member of the management (Operations)	4nd quarter 2027	93 %	
	Extension of the fire protection equipment (RZB)	25.2	Extension of the fire protection equipment in hall 5A	Member of the management (Operations)	2nd quarter 2028	93.8 %	
	Extension of the fire protection equipment (RZB)	25.3	Extension of the fire protection equipment in hall 5C	Member of the management (Operations)	3nd quarter 2028	96.8 %	
	Extension of the fire protection equipment (RZB)	24.2	Extension of the fire protection equipment in halls 6	Member of the management (Operations)	4nd quarter 2028	100 %	



Image for no. 7 Create and introduce measuring point concept



Image for no. 10 Energetic conversion lighting installation



Image for no. 11 Replacement of compressor control

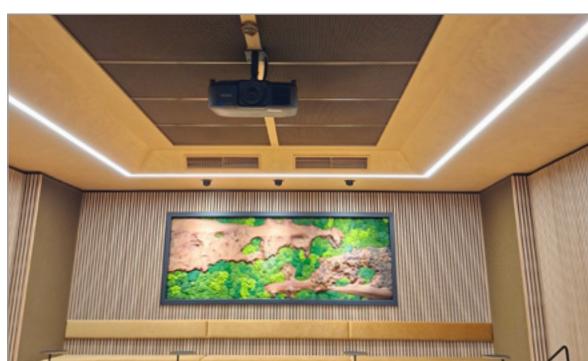


Image for no. 22 Extension of the fire protection equipment

## 9. Validation

**Peter Fischer Managementberatung**  
**Environmental Verifier, Auditor ISO 14001 and ISO 50001**



### Declaration of Validity

Peter Fischer, with EMAS environmental verifier registration number DE-V-0060 accredited or licensed for the scopes 27.4 and 27.9 (NACE Code) declares to have verified whether the whole organisations as indicated in the environmental statement of the organisations

#### **RZB Rudolf Zimmermann, Bamberg GmbH**

Rheinstraße 16

96052 Bamberg

and

#### **Sonlux Lighting GmbH**

Frankenhäuser Straße 66

99706 Sondershausen

meet all requirements of Regulation (EC) No 1221/2009 of the European Parliament and of the Council of 25 November 2009 on the voluntary participation by organisations in a Community eco-management and audit scheme (EMAS) in the version valid after 9 January, 2019.

By signing this declaration, I declare that:

- ✓ the verification and validation has been carried out in full compliance with the requirements of Regulation (EC) No 1221/2009,
- ✓ the outcome of the verification and validation confirms that there is no evidence of non-compliance with applicable legal requirements relating to the environment,
- ✓ the data and information of the environmental statement of the organisations reflect a reliable, credible and correct image of all the organisations activities, within the scope mentioned in the environmental statement.

This document is not equivalent to EMAS registration. EMAS registration can only be granted by a Competent Body under Regulation (EC) No 1221/2009. This document shall not be used as a stand-alone piece of public communication.

Done at Schwanstetten on November 12, 2025



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Peter Fischer  
DE-V-0060  
Environmental Verifier

# CERTIFICATE



## RZB Rudolf Zimmermann, Bamberg GmbH

Rheinstraße 16  
96052 Bamberg

## SONLUX Lighting GmbH

Frankenhäuser Straße 66  
99706 Sondershausen

Registration-No.: DE-106-00069

Date of first registration 29<sup>th</sup> January 2025

This certificate is valid until 18<sup>th</sup> December 2027

This organisation has established an environmental management system according to Regulation (EC) No 1221/2009 and EN ISO 14001:2015 sections 4 to 10 to promote the continual improvement of environmental performance, regularly publishes an environmental statement, has let the environmental management system be verified and the environmental statement be validated by an independent and accredited verifier, is registered under EMAS ([www.emas-register.de](http://www.emas-register.de)) and therefore entitled to use the EMAS-Logo.



Bayreuth, 31<sup>st</sup> January 2025

  
Dr. Michael Waasner      Wölfraum Brehm  
President                      General Manager

# 10. Legal notice

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and Sonlux Lighting GmbH





**SONLUX**

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