

**Sustainability report**  
2023



**THE  
GREEN  
SIDE  
OF  
DRIVE**

**SEW**  
**EURODRIVE**



Sustainability along the entire value chain

Sustainability is an essential part of SEW-EURODRIVE UK's strategy and operations. Our sustainability efforts encompass every aspect of our company, including people, products & services, supply & raw material chains, assembly processes as well as ethical and governance practices.

Our commitment to sustainability is driven by our belief that people are the heart of everything we do. Whether in sales, engineering, assembly or service.

For us, sustainability means more than just minimizing waste and reducing our environmental impact. It means protecting and preserving the very basis of our existence, both as a company and as a member of a larger global community. By embracing sustainability in all aspects of our operations, we are not only fulfilling our responsibility to the planet for the future generations to come, but we also ensure the long-term success of our business.

We know that creating a more sustainable future requires collaboration and innovation. That's why we are committed to working with our customers, partners, and stakeholders in order to drive progress towards a more sustainable future for everybody.

This sustainability report shows our current sustainability efforts and outlines areas for improvement - our drive for the future!

Sincerely,



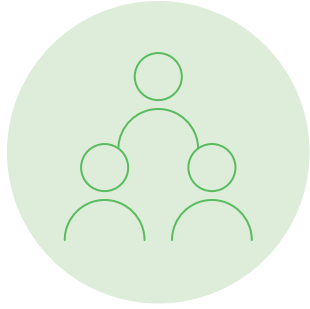
John Pickup  
Managing Director  
SEW-EURODRIVE UK

# About our company

SEW-EURODRIVE is the international leader in industrial automation. Founded in 1931 in Bruchsal, Germany with humble beginnings, we have grown to a worldwide company with over 22 000 team members. We blend product innovation with incredible customer support to ensure our place as a deserving supplier to our customers.

Vision statement: Our customers are makers. They are doers. They are the drivers of local economies and the foundation for successful communities. Our purpose is to make and support the best industrial automation products on earth for the ones that keep it turning.

Mission statement: To provide our customers the world's finest industrial automation products, people and support.



# 22 000

employees worldwide

# 56

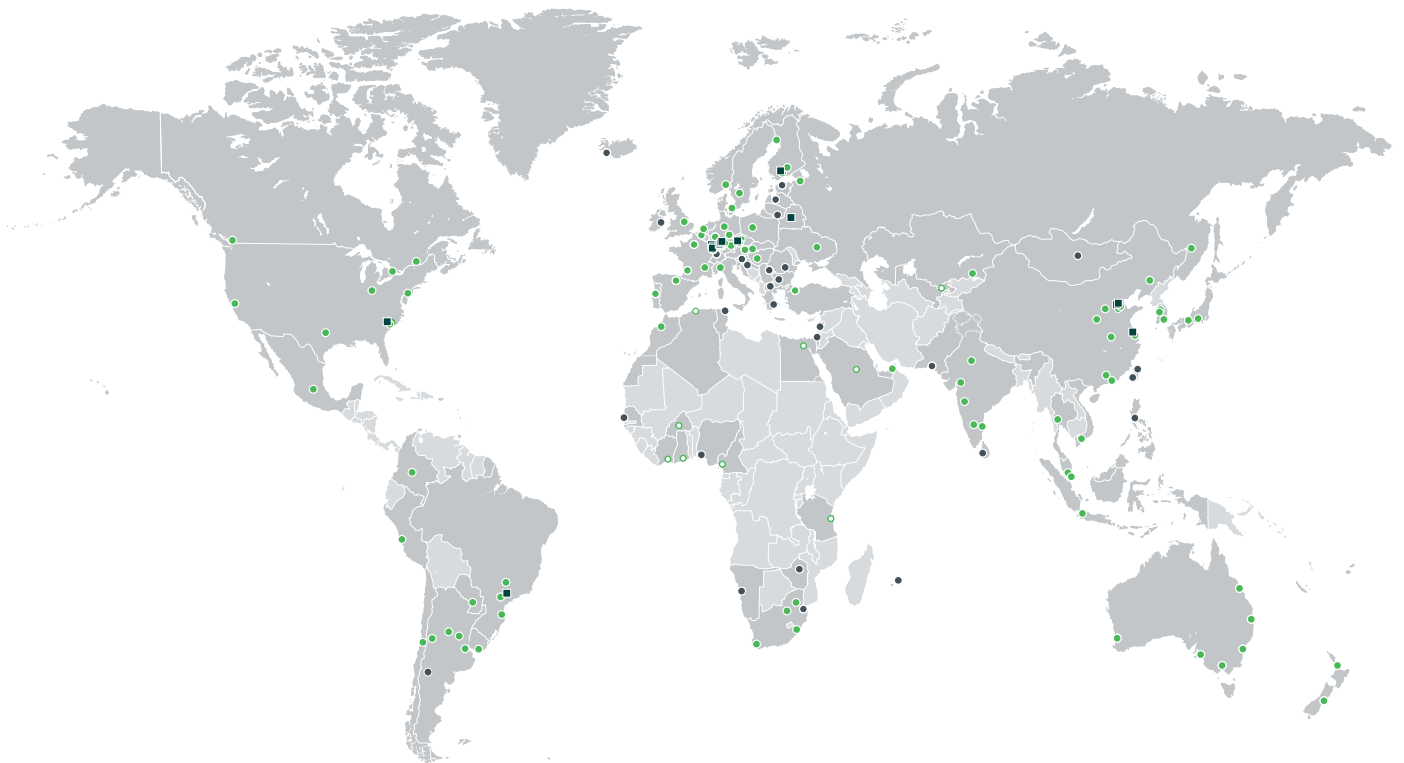
Countries

# ~ 110 000

active customers

# > 3 000

patents granted



- **17** production plants
- **92** Drive Technology Centers
- **> 200** sales companies
- **38** partners

# About SEW-EURODRIVE UK

SEW-EURODRIVE UK was founded in 1969 as a subsidiary of SEW-EURODRIVE GmbH & Co KG, Germany.

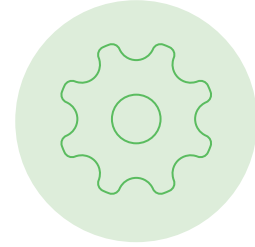
The company is specialized in drive technology and offers a wide range of products like geared motors, industrial gear units, frequency inverters, servo gear units and decentralized drives.

Based on the SEW group's decentralized business model and with focus on creating value close to the customers, our drive technology center operates from Normanton, West Yorkshire. From our service centers in Cumbernauld, Bromsgrove and Aldermaston, we support our customers throughout the whole of the UK.

With local assembly for both mechanics and electronic products, we offer short delivery times for gear motors and frequency inverters. We also offer our customers unique support through our knowhow and wide experience within transmission and automation for various industries and applications.

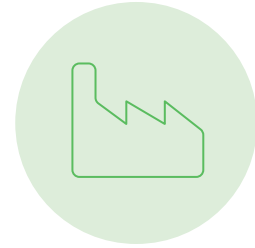


- Drive Technology Center
- Sales & Service Center
- ◆ Sales Partner



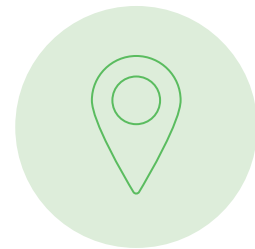
## 1969

Founded



## Headquarter

Normanton, England



## Locations

# 1

Drive Technology Center  
(Normanton)

# 3

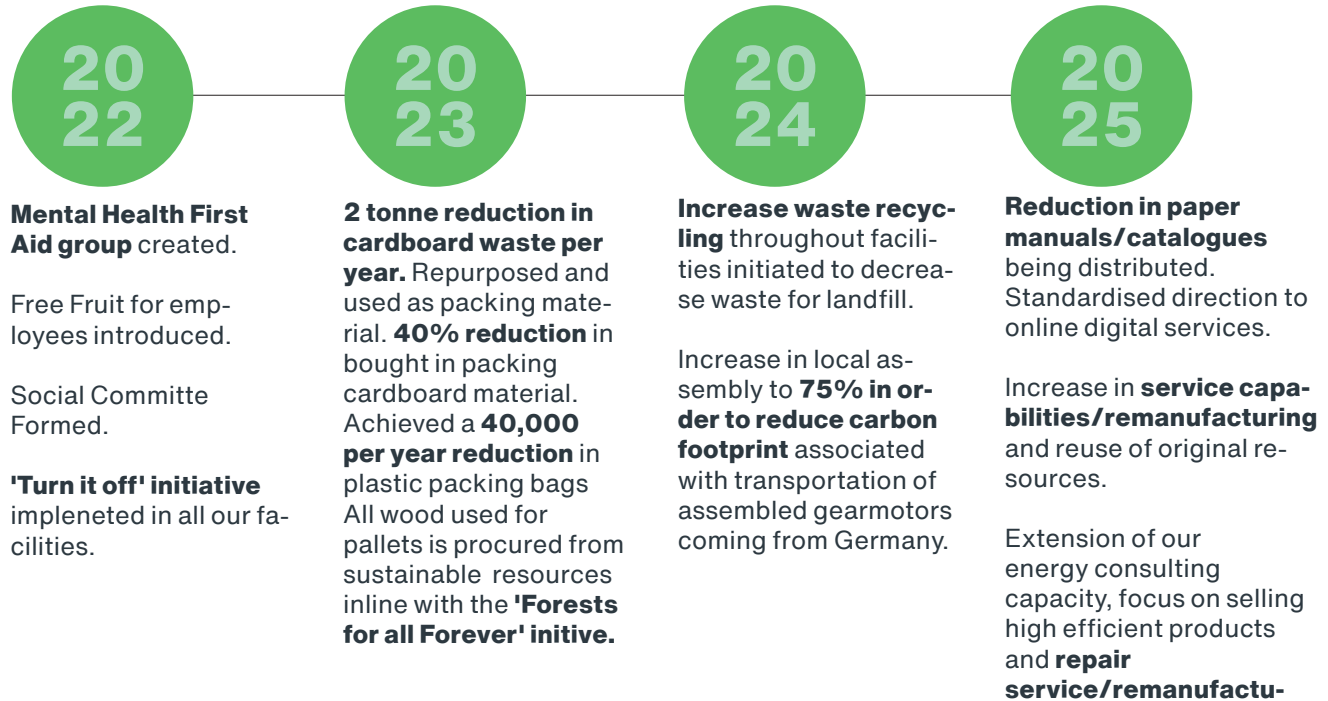
Sales & Service Centers  
(Cumbernauld, Bromsgrove  
& Aldermaston)

# 2

Sales & Service Partners  
Alperton (Dublin)  
Heyn (Belfast)

# The SEW sustainability roadmap – the key stages and milestones

Our roadmap includes the key milestones for our journey towards greater sustainability by 2025.



## Our approach to Sustainability

Sustainability is one of our values, built into our daily management and strategy. We are guided by the 17 global sustainability goals: “Sustainable Development Goals” of the United Nations. As part of this long-term sustainability initiative, we aim to gradually and consistently safeguard resources, lower CO<sub>2</sub> emissions, and thus optimize our entire value chain.

At the same time we have elevated sustainability on an organizational and strategic level by establishing a Sustainability Working Group in our Headquarter in Germany that reports directly to the Management Board.

This coordinated approach will ensure that individual measures and activities can have even more impact in the future.



During summer 2022 SEW-EURODRIVE UK formed their first Sustainability Team committed to the goal of developing a local, strategic sustainability approach. This project has resulted in the definition of three main sustainability focus areas:

- Increase our share of local assembly from 70% to 75%, thus reducing our CO<sub>2</sub> footprint associated with transportation of assembled gearmotors correspondingly
- Help our customers select solutions with a lower CO<sub>2</sub> footprint through energy consulting during the sales process
- Extend the life of our products promoting CDM, preventive maintenance, remanufacturing and retrofit thus helping our customers save CO<sub>2</sub>

# 17 Global Sustainability Targets

We hope to make the world a better place for people and the planet, which is why we have aligned our business with the UN Sustainable Development Goals.

“The 2030 Agenda for Sustainable Development, adopted by all United Nations Member States in 2015, provides a shared blueprint for peace and prosperity for people and the planet, now and into the future. At its heart are the 17 Sustainable Development Goals (SDGs), which are an urgent call for action by all countries - developed and developing - in a global partnership. They recognize that ending poverty and other deprivations must go hand-in-hand with strategies that improve health and education, reduce inequality, and spur economic growth – all while tackling climate change and working to preserve our oceans and forests.”





# The basis of our business activities



# People make the difference

People are the key to the success of our company. Whether in assembly, sales or service – people are at the heart of everything. Our company culture is characterized by the reciprocal trusting, respect, and valuing of one another.

By introducing countless measures related to occupational health management and both basic and further training, we keep levels of motivation high and make sure our employees identify strongly with our company.

Our corporate culture is based on trust, which supports freedom with responsibility. Thus, our employees have the liberty to solve their tasks with a great range of autonomy.

We believe that our constant expansion and evolution gives our employees the opportunity to be part of our success and creates a safe and satisfactory work environment.

KPI metrics (2023)

**46.8**

Average age of personell / years

**0.1%**

Workdays with absence due to injuries of total absence

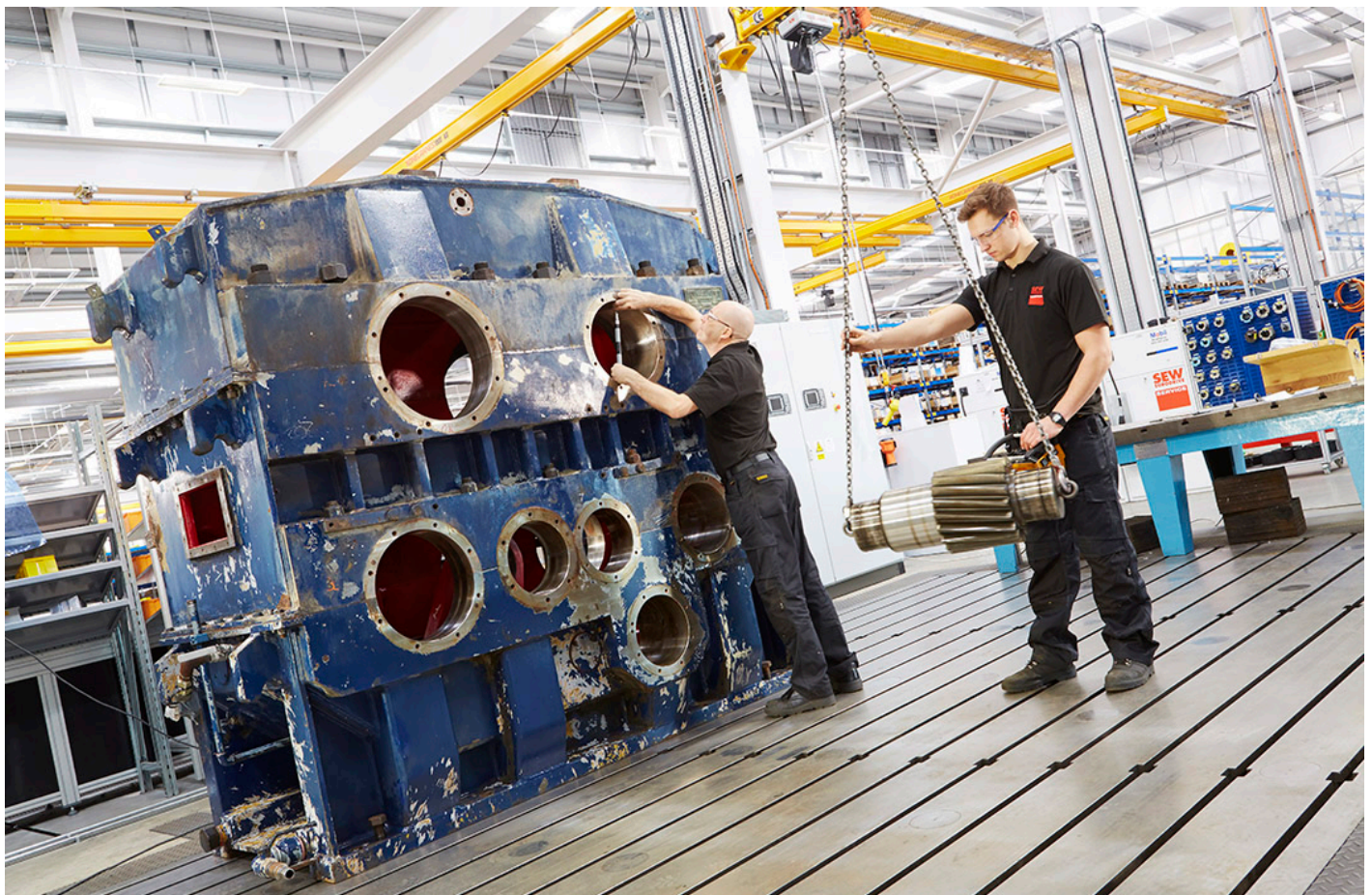
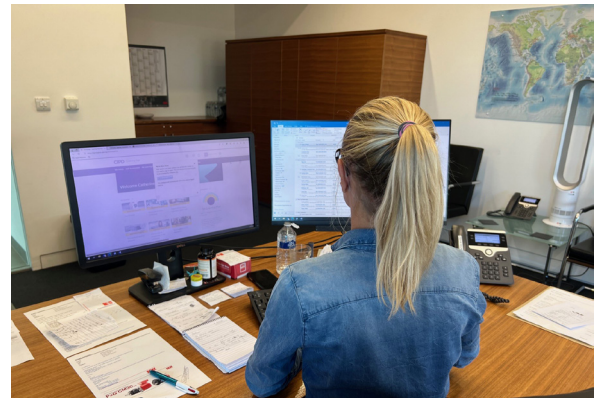
## Safety matters

One of our top priorities is to provide our employees a healthy and safe working environment. We encourage our employees to develop occupational safety. We also provide continuous training for employees and jointly identify areas in need of development in the work environment.

## Knowing what matters

The training content we offer makes it possible for both our employees and customers to get the best out of SEW-EURODRIVE drives and solutions, in order to achieve the optimum balance between economic and ecological interests.

Besides being convenient, minimizing travels related to training courses also helps reduce our CO<sub>2</sub> emissions. The growing number of on-line courses and seminars is helping to shrink this carbon footprint.





**Health and employee initiatives  
– an overview**

- + Continuous development of employees' competences
- + Company canteen with a variety of healthy food options, free fruit for all
- + Company arranged social events for employees
- + Ergonomically designed workstations in offices and production facilities
- + Modern IT equipment to suit the relevant working process
- + New optimized, efficient & ergonomical layout – state of the art within assembly of industrial products



KPI metrics (2023)

**11.9**  
Average seniority / years

**15.3%**  
Percent employee turnover rate

**"Whether in assembly, sales or service - at SEW-EURODRIVE, people are at the heart of everything"**

# Products & Services

As a leading drive technology company SEW-EURODRIVE sees innovation as a decisive factor for its sustainable approach to developing products, systems, and services. The modular concept behind our products is one of the most important reasons for their success and also contributes significantly to sustainability by reducing stock and increasing stock turnover rate.

The sustainability of our state-of-the-art gear units is principally based on the general idea of creating as many variants as possible from as few individual parts as possible. A good example of this is using the same gear set for multiple product types and sizes.

## 50%

IE5 energy losses can be up to 50% lower than with a pure IE3 mains motor.

Another way that our modular system improves sustainability is that many components can be used across a range of different product series. At the same time, simply having one component in dual variants, such as a drive bearing, means we can offer twice as many variants of each product.

Since all components are compatible, the end result is greater variation. This in turn enables us to build solutions that are tailored as closely as possible to specific customer requirements.

Remanufacturing of gear units and recycling are two approaches that give many drives a second life.

In addition, we also supply a considerably CO<sub>2</sub>-reduced lubricant in recycled containers.

### Better energy efficiency across the entire system

By maximizing energy efficiency at the concept development stage, we aim to make our drive solutions as economical as possible. A good example of this are the inverters in the latest generation of our MOVI-C® modular automation system.





### **Sustainable Life Cycle Services**

Our Life Cycle Services cover the entire service lifespan of a product while it is in use with the customer. Life Cycle Services encompass services, tools and resources throughout the entire system life cycle.

- + Target to achieve 360+ repairs per month, our service team remanufacture 60-65% of all units returned for inspection
- + We offer energy consulting carried out by application engineers and we focus on selling high efficient products
- + Our energy efficiency tools support determining the optimal efficiency of systems and reducing CO<sub>2</sub> emissions during operations
- + SEW-EURODRIVE has created the DriveRadar® brand for its condition monitoring offerings. Cloud systems and apps make condition monitoring much more convenient for customers, which ultimately increases the lifetime of our products
- + SEW-EURODRIVE remanufactured gearmotors are an optimal solution to ensure extended product life



**"Cradle to cradle" means that all the products, materials, and substances used to manufacture a product can be fully returned to, or reused in, biological or technical loops.**

# Supply & raw material chains

"Act global – think and buy local." For many companies, a combination of globalization and localization – sometimes known as "glocalization" – has become the best possible approach when it comes to shrinking the carbon footprint. Given the many problems currently impacting supply chains, a large number of businesses are making focused efforts to achieve as much flexibility as possible moving forward. They are looking to avoid overdependence on individual countries and regions.

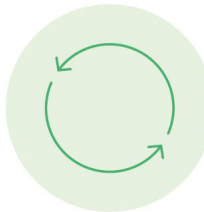
The same applies to the supply and raw material chains of SEW-EURODRIVE. We aim to minimize our carbon footprint and maintain a healthy supply chain through the use of our global network. This will ensure that the procurement of raw materials, as well as our products and solutions, are located as close as possible to both our sites and our customers. By keeping transportation routes short in this way, we will reduce our CO<sub>2</sub> emissions and minimize the amount of packaging involved.

Reviewing the sustainability of our service providers and suppliers is a key element in our supplier management system.



## Low-carbon green steel production

Green steel is manufactured for SEW-EURODRIVE in a process where CO<sub>2</sub> emissions have been reduced as much as possible by using recycled waste and electric arc furnaces that are powered entirely by renewable energy. Only around 110 kg of CO<sub>2</sub> are emitted per metric ton of raw steel, which is 90% less than the global average.



Thanks to our recycling of cardboard boxes we repurpose 2 tonnes of waste cardboard in to packing product every year.

KPI metrics (2023)

# 70.1%

Percentage of product local assembly (Normanton)

## A tighter focus on sustainability both now and in the future

While refining and realigning our approach to supplier selection, we decided to make a change. In the past, our priority in procurement has been to secure the best and most consistent material quality at the best possible conditions on very different markets.

However, focusing exclusively on conventional requirements such as cost reduction and risk minimization is no longer enough. Instead, procurement will need to take account of not just the origin and price of procured services and products, but also – and more especially – their use and subsequent disposal.

## How we aim to achieve more sustainability

- + Continuously optimizing business processes to ensure the efficient and sustainable use of resources
- + Establishing collaborative supplier relationships with a focus on mutual reliability and social responsibility
- + Continuing to specifically prioritize local service providers and suppliers
- + Increasing local assembly capacity with new assembly layout thus reducing our carbon footprint associated with transportation of assembled gearmotors correspondingly as transportation of the unassembled parts takes up much less space





# Production & Business processes



Continuous improvement of the energy efficiency of the premises

KPI metrics (2023)

**100%**

Percentage of waste diverted from land-fill

**2000**

KG per year reduction in cardboard waste. Reused in packing

**40%**

Reduction in purchased packing material

**10t**

Average monthly weight of metal material sent for recycling

We aim to enhance our efficiency across individual areas by ensuring our assembly processes are ideally coordinated. Among other initiatives we are adopting a smart approach to the digitalization of our business.

Our buildings are regularly updated with the aim of optimizing energy efficiency.

In terms of assembly operations, we constantly strive to further improve workflows across all process chains and avoid waste and inefficiency

How much CO<sub>2</sub> does a drive solution from SEW-EURODRIVE generate?

We only have limited access to figures from our customers, as we are dependent on the companies in question telling us about the conditions in which their solutions are being used. This is relevant information as more than 95% of the total CO<sub>2</sub> emissions associated with our gearmotors comes from operations, based on an average lifetime of approx. 15-20 years.

Although it is challenging to determine the carbon footprint of our solutions that are actually in use, we are making good progress when it comes to calculating the annual carbon footprint associated with the energy and electricity consumption of our production.







Continuously optimizing our building management and our company's overall environmental credentials in terms of sustainability, energy efficiency, and resource conservation requires a lot of small steps:

- + Concrete slab cooling system in our Normanton facility - no air-conditioning
- + Motion sensitive LED lighting management system
- + Consistently managing the switching off of machinery/ systems and equipment outside of working hours
- + Ethical source of wood for all our pallets from sustainable resources
- + Ergonomically designed workstations in the offices and factories
- + 43 Solar Panels installed in Normanton generating 41,516 kWh/pa
- + Air leak detection monitoring survey conducted periodically



Analyzing energy mix and identifying optimization potential

KPI metrics (2023)

**12.5**

percent of hybrid cars on the fleet

**90%**

Digital invoice

We are always looking for new, innovative, and sustainable energy concepts.

We regularly review and evaluate new methods of energy generation that may be of interest to us.

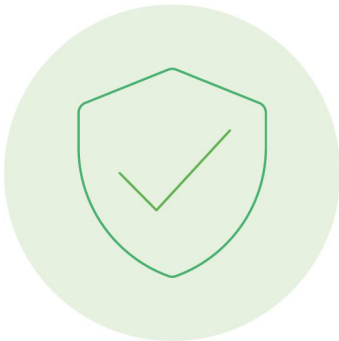
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**"We are making good progress when it comes to calculating the carbon footprint for each of our products."**

# Ethics & governance

## Our most fundamental corporate principles

The high quality of our products and solutions is matched by a high benchmark in ethical guidelines and standards. We believe that ethics and governance are about more than just abiding by applicable laws and global human rights. For us, ethics and governance are about actively managing sustainability and pursuing our company's core values of freedom, reliability, and humanity. As one of the world's leading manufacturers of drive technology, these standards are very close to our heart, whether in terms of occupational health and safety, a corporate code of conduct, or functional safety.

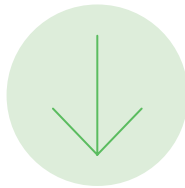


## Whistleblower Hotline

We have also successfully launched a publicly accessible whistleblower tool. The company's employees and external third parties such as suppliers can use this tool to submit anonymous tip-offs. Most importantly, the tool provides a channel of communication with the source of information, without that source having to reveal their identity.

## Dependable data protection through the GDPR

We naturally observe and abide by all provisions and regulations in the General Data Protection Regulation (GDPR), which entered into force in 2018. We have an appointed in-house data protection officer for this purpose.



KPI metrics (2023)

**0**

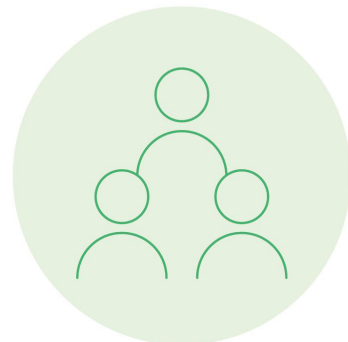
Whistleblower  
anonymous  
tip-offs

## Overview of certificates and product compliance regulations

We comply with the applicable international standards for quality management, environmental management, and energy management in addition to other ISO standards on occupational health and safety and information security.

## Certificates issued by SEW-EURODRIVE

- + QM-Certificate (Quality Management System)
- + FSM-Certificate (Functional Safety Management System)
- + EX-Certificate (Manufacture of Gears, Motors and Gear Motors)
- + IT-security-Certificate



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## Code of Conduct – the ethical guidelines for our day-to-day activities

Our Code of Conduct guides our everyday work. Through this code, we make a commitment to abide by all applicable laws and the core values of our company, namely freedom, reliability, and humanity. At the same time, the Code of Conduct helps us acknowledge our responsibility as an international family business with a history that stretches back more than 90 years.

Our Code of Conduct applies to every single member of staff, whether a senior executive or trainee, and to all hierarchy levels across all our branches and business units worldwide. Misconduct that violates the Code of Conduct may be harmful to SEW-EURODRIVE and will not be tolerated.

Please find our Code of Conduct on [www.sew-eurodrive.co.uk](http://www.sew-eurodrive.co.uk) or just ask for it and we will be happy to send it to you.

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## Our actions are governed by eight key principles

# 1

### Abiding by the law

We always act in accordance with the local laws.

# 2

### Management culture

Our managers have a special responsibility and pay particularly close attention to the regulations of the Code of Conduct.

# 3

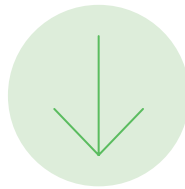
### Human rights / ban on child labor / forced labor

We reject child and forced labor, and are vigilant with regard to any human rights violations.

# 4

### Workers' rights

We respect the labor rights that apply in any given circumstance and support their enforcement.



# 5

### Health and safety in the workplace

We place major emphasis on the safety and health of our employees and support the continuous further development of safety measures.

# 6

### Working together and the prohibition of discrimination

We respect each other and reject any form of discrimination.

# 7

### Environmental protection

We always consciously act to minimize our impact on the environment and conserve resources.

# 8

### Tax compliance

We meet our tax and contribution obligations and provide constructive assistance to the relevant authorities.

Our Code of Conduct also contains detailed rules for how to handle business relationships. For example, we reject any form of preferential treatment or bribery as part of our business dealings. We also have a proactive policy regulating the giving and receiving of gifts. Any form of gratuity must not under any circumstances influence a business decision. Gifts and invitations that exceed a value of GBP £60 per individual gift or GBP £180 per person, per financial year must be reported and seamlessly documented.

Any agreements that are anti-competitive are also prohibited. We avoid any semblance of a conflict of interest, as it is in our own business interest to do so. We also handle information with care, and always ensure that the appropriate level of confidentiality is assured. We place a strong emphasis on the protection of personal data.

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You can find the full text of our Code of Conduct, plus a detailed description of all principles and regulations on [www.sew-eurodrive.co.uk](http://www.sew-eurodrive.co.uk) or the QR-code below.





## Overview of the environmental topics

### GRI

**302**  
Energy

**305**  
Emissions

**306**  
Waste

### ESRS

**E12**  
Climate  
change

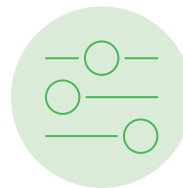
**E3**  
Water

**E3**  
Resource  
use

## Process for annual CO<sub>2</sub> reporting



**1. Basic data and information** are collected and checked for plausibility by the individual departments and system sources.



**2. Calculation of GHG emissions** by using a previously developed system to ensure comparability.



**3. Disclosure of GHG emissions** as well as the derivation of further targets and measures in accordance with defined standards.

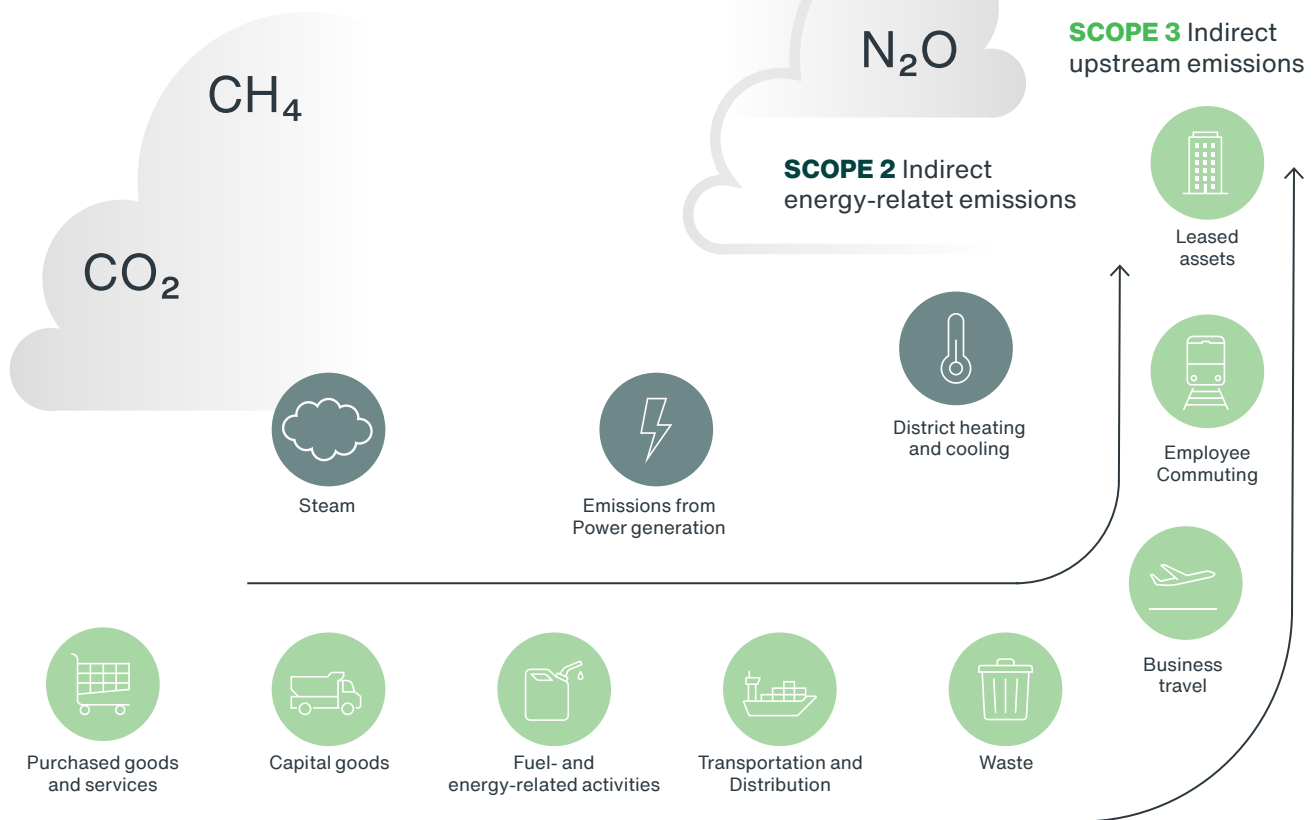


**4. Detail and optimise the procedure** in order to increase accuracy while minimising effort.

## Abbreviations and standards

CSRD	Corporate Sustainability Reporting Directive or Directive (EU) 2022/2464
ESRS	European Sustainability Reporting Standard developed by the EFRAG
ESRS ...	Topical standards of the ESRS regarding Climate Change (ESRS E1), Water and marine resources (ESRS E3) as well as Resource and circular economy (ESRS E5)
EFRAG	European Financial Reporting Advisory Group
GRI	Global Reporting Initiative
GRI ...	Topical standards of the GRI regarding Energy (GRI 302), Water and effluents (GRI 303), Emissions (GRI 305) as well as Waste (GRI 306)
GHG	Greenhouse gas emissions

# Description and application of the Greenhouse Gas Protocols



## SCOPE 3 Indirect upstream emissions

Com

To ensure that greenhouse gas emissions are calculated in accordance with the GRI and ESRS requirements, the Greenhouse Gas Protocol (GHG Protocol) is used as a guideline for this sub-topic.

**The Greenhouse Gas Protocol divides emissions into three scopes:**

**Scope 1** covers CO<sub>2</sub> output from direct greenhouse gas emissions, from burning natural gas, fuel oil, diesel, etc. for stationary systems (e.g. heating) and mobile systems (e.g. the car pool).

**Scope 2** covers indirect emissions from the purchase of grid-based energy, including electricity, district heating and district cooling, for example. The emissions are generated by the energy supplier.

**Scope 3** covers all other indirect emissions that do not fall under Scope 2, such as the extraction, processing, and transportation of raw materials, the fuel consumption of leased vehicles, waste and wastewater, the operation phase of sold products from our customers, and the disposal of products.

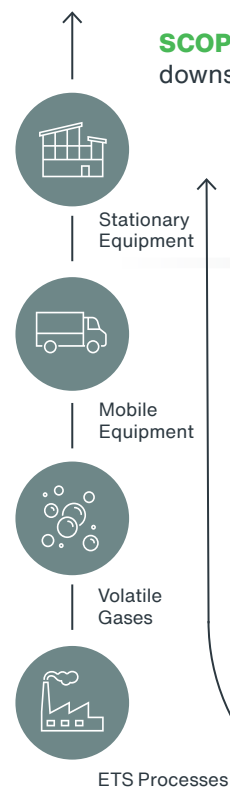
### Scope Emissions from ...

- 1.1 stationary equipment (heating, CHP, ...)
- 1.2 mobile equipment (company vehicles, ...)
- 1.3 volatile gases (refrigerants, solvents, ...)
- 1.4 ETS-Processes
- 2.1 purchased electricity
- 2.2 purchased district heating or cooling
- 2.3 purchased steam
- 3.1 purchased goods and services
- 3.2 purchased capital goods
- 3.3 fuel- and energy-related activities
- 3.4 upstream transportation and distribution

### Scope Emissions from ...

- 3.5 waste generated in the company
- 3.6 business travel
- 3.7 employee commuting
- 3.8 leased assets (upstream)
- 3.9 downstream transportation and distribution
- 3.10 processing of sold products
- 3.11 use of sold products by the customer
- 3.12 end of life treatment of sold products
- 3.13 leased assets (downstream)
- 3.14 franchising
- 3.15 investments (corporate shares, ...)

**SCOPE 1**  
Direct emissions



**SCOPE 3** Indirect downstream emissions



pany

**SCOPE 3** Indirect downstream emissions

In addition to the subdivision into the individual sub-areas, a distinction is made between market-based and location-based emissions, particularly in Scope 2:

**Market-based emissions**

In this context, greenhouse gas emissions are determined in accordance with the contractually agreed conditions, for example on the basis of supply contracts with the energy supplier. Existing energy certificates are also taken into account. For example, if only green electricity is used, no emissions are generated in the market-based area (Scope 2.1). If any information is missing, the residual mix is used.

**Location-based emissions**

These emissions are calculated based on the actual mix of energy sources in the local energy grid. This means that the type of energy that the company obtains due to local conditions is taken into account. Therefore, despite the green energy contract, Scope 2 emissions may occur.



# Centralised procedure of SEW-EURODRIVE

In order to ensure consistency between the reports of individual sites, site-specific data is always used in presentations and comparisons, particularly due to the different data basis.

We consider the transparency and accuracy of the published environmental data to be essential.

The current landscape reveals a challenge: diverse standards and practices create a maze of data. Companies operate at different levels in data collection and theme implementation, while a multitude of environmental databases add to the complexity.

The comparability of carbon footprints is a difficult and currently impossible endeavour, especially in view of the different fields of action, company sizes and legal forms.

The aim within SEW-EURODRIVE is to use carbon accounting to enable standardised and consistent process implementation in order to ensure internal comparability.

## Roadmap for CO<sub>2</sub>-reporting

In addition to the last site-specific carbon accountings of the German sites, including the production plant in Graben-Neudorf and the electronics production in Bruchsal, the methodology for data collection was extended to other European sites and plants.

Over the next few years, we aim to create more transparency regarding the carbon footprint of additional subsidiaries as well as improve our reporting in relation to other Scope 3 categories.

### End of 2024

Site-specific carbon accounting for SEW-EURODRIVE production plants

Site-specific carbon accounting for SEW-EURODRIVE assembly plants

# Process for Carbon Accounting



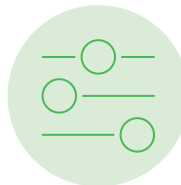
## Collection

of necessary data is done by the individual EURODRIVEs



## Management

of data (including merging, archiving and validation) is done by a central infrastructure



## Centralized

methodology for calculation of GHG emissions to ensure comparability



## Results

are therefore provided by the HQ and used for optimization purposes

Before the collected data can be disclosed or used to calculate greenhouse gas emissions, they must first be subjected to a validation test to ensure their accuracy.

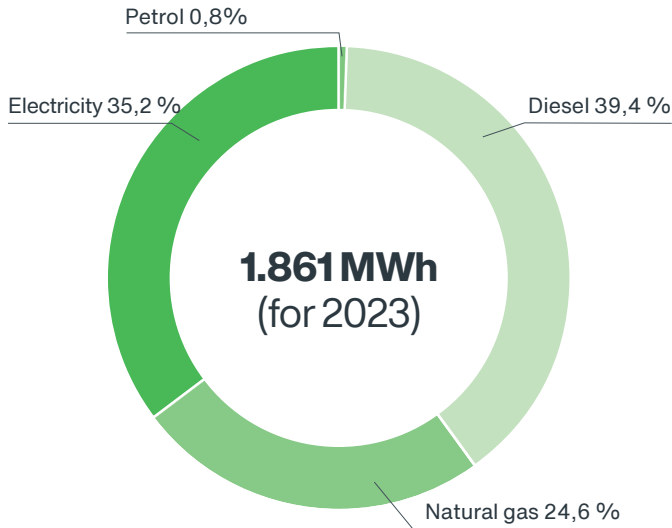
Each data point is accompanied by a validation document. Once the entry has been made, the individual entries are checked by an independent in the HQ. The test includes, for example, a comparison of the invoiced energy quantities compared to the measurements from internal infrastructure as well as comparisons of the previous year. This is to ensure the plausibility of the results. In case of deviations, the responsible persons are then requested to check and correct their data.

- ① Data request
- ② Data collection
- ③ Data validation
- ④ Data correction
- ⑤ Carbon accounting
- ⑥ Completed



## Energy consumption

Consumption and distribution of individual energy sources



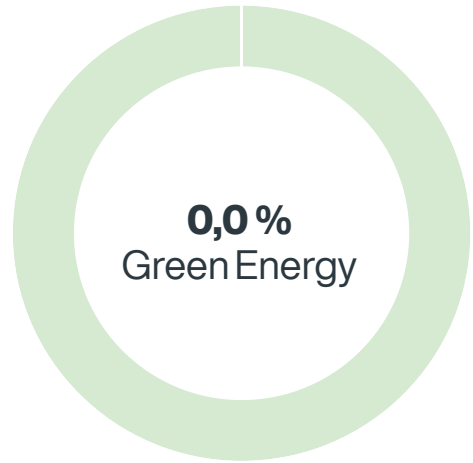
At the DTC Normanton site, diesel is primarily used as the main energy source, with consumption largely dependent on the vehicles deployed, especially those in field service. All vehicles are owned by SEW-EURODRIVE. In addition to this, natural gas is used for heating processes.

**1,4 %**

Increase of energy consumption compared to previous reporting period

## Use of renewable energy

Following a market-based approach



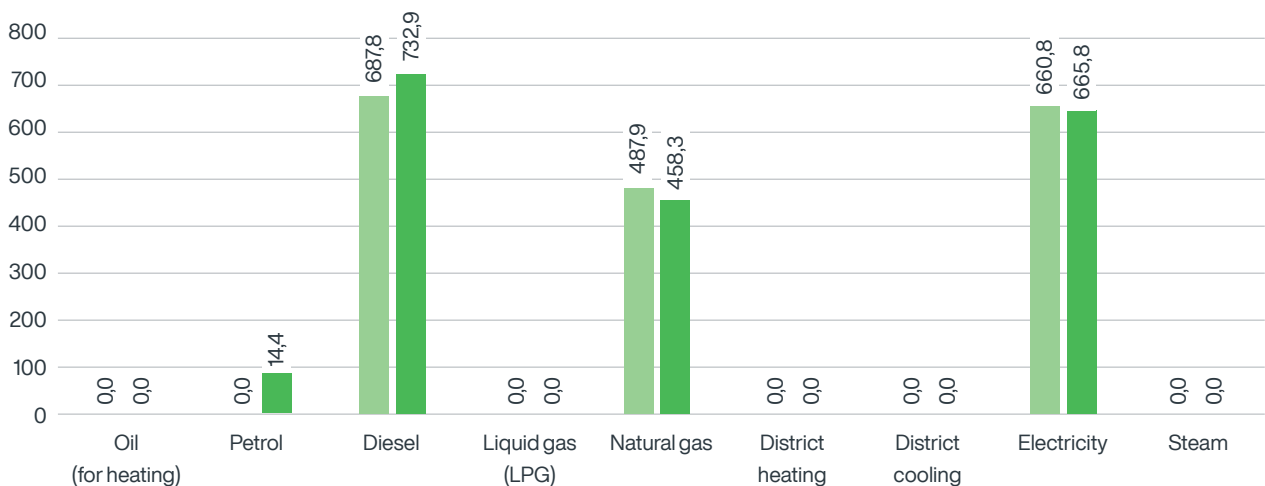
At the DTC Normanton site, SEW-EURODRIVE currently uses only a small proportion of renewable energies to procure electrical energy. Since there is no specific contract with the energy supply company for the procurement of green electricity, the composition of the energy mix is determined based on the residual mix (or the remaining energy mix). The resulting emissions are also calculated from this.

In addition, the photovoltaic systems on the plant premises contribute a further share of green energy to electricity generation.

## Consumption development of individual energy sources

Amount of energy in MWh

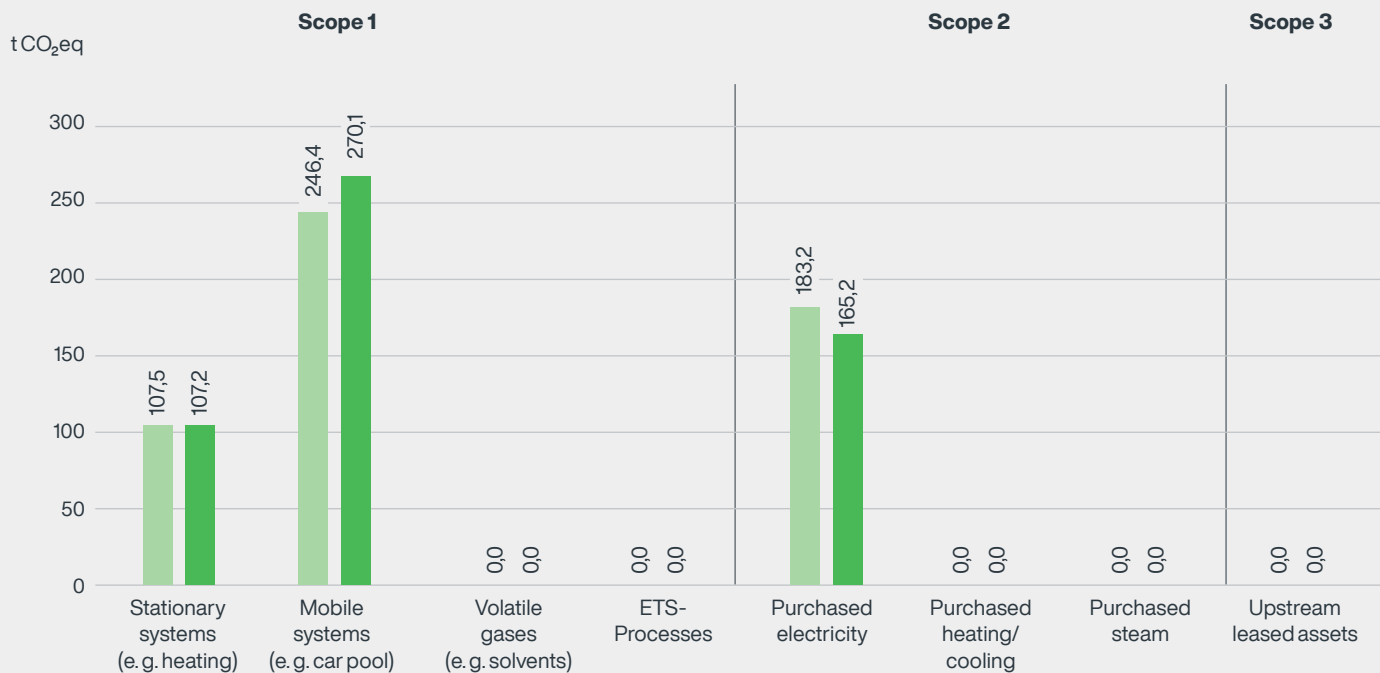
■ 2022 ■ 2023



# Carbon accounting in Normanton

## Overview of the individual categories

■ 2022 ■ 2023



This year's carbon accounting only considers Scope 1 and 2 emissions, especially because this is a crucial area for achieving all measures for climate neutrality (within both scopes) by 2026.

Additionally, Scope 3 emissions caused by leased and rented vehicles are also being taken into account to prevent greenwashing. Work is currently underway on a unified strategy for accounting for additional Scope 3 categories.

### Following scopes were considered for carbon accounting:

- 1.1 Stationary installations such as a central heating system for supplying the site.
- 1.2 The emitters in this case are mobile installations, including company-owned vehicles.
- 1.3 It mainly concerns refrigerant and solvent emissions.
- 1.4 No processes subject to an emissions trading system were identified.
- 2.1 For the calculation of emissions, the location-specific approach is used.
- 2.2 Emissions from this category are due to the use of district heating.
- 2.3 The business activities of SEW-EURODRIVE do not cause emissions in this regard.
- 3.8 All vehicles in the fleet are owned by SEW-EURODRIVE.

**1,4 %**

Increase of CO<sub>2</sub>eq emissions compared to previous reporting period

**14,2 t**

Increase of CO<sub>2</sub>eq emissions compared to previous reporting period

### Emission summary

The figures: 2023

Scope 1 approx.

**377**

metric tons of CO<sub>2</sub>eq

Scope 2 (location-based) approx.

**165**

metric tons of CO<sub>2</sub>eq

Scope 2 (market-based) approx.

**125**

metric tons of CO<sub>2</sub>eq

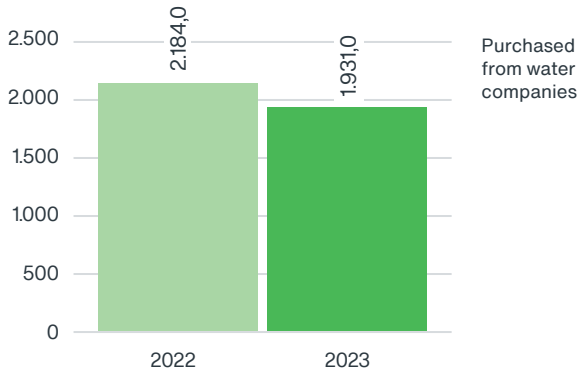
Scope 3 approx.

**0**

metric tons of CO<sub>2</sub>eq

# Water consumption

Amount of water  
in m<sup>3</sup>



In order to fulfil the requirements of ESRS E3, it is not sufficient to consider only the volume of water withdrawn from the municipal water supply. In addition, other sources, such as the use of rainwater are considered.

Due to a lack of measurement technology, only certain points are considered. However, our goal is to increase the data accuracy in this area.

## Annotations

This area is intended for sustainability analyses and optimization potentials. Here you will find comments, measures, and observations regarding legal frameworks as well as the sustainable management of energy consumption, greenhouse gas emissions, waste management, and water consumption.

### General information

- As this is the initial report, the framework conditions and assumptions made are described herein.
- The emissions are based on the entered data in the Carbon Accounting Tool.
- Unless there are any changes, the described assumptions will remain unchanged.

### Energy consumption

- The proportion of renewable energy consumption is determined from market-based data.  
**Note:** If no renewable share is specified during data retrieval, the conservative assumption is made that energy supply is exclusively from fossil fuels.
- For the determination of total energy consumption, conversion factors from the German Federal Office for Economic Affairs and Export Control (BAFA) and the requirements therein are utilized.

### Greenhouse gas emissions

- Emissions factors from the Ecolnvent database (v3.10) are used for emissions calculation. Analogous to projects involving product balancing, "allocation cut-off by classification" was chosen as the system model. This approach results in the consideration of infrastructure and losses in emission factors, leading to a portion of Scope 3.3 emissions already being included in Scopes 1 and 2, and potentially causing double counting. However, this approach has been compared to and confirmed against a conventional calculation method.  
**Note:** Due to different energy considerations, it is discouraged to independently determine the emission factor from the provided data. If emission factors are needed, we kindly ask you to contact the BFM Carbon Accounting Team.
- The IPCC 2021 is applied as the evaluation method.
- Data from the sixth IPCC Assessment Report (IPCC AR6) is used to determine emissions from refrigerant leaks.
- All selected emission factors are based on greenhouse gas potentials over a 100-year period (GWP<sub>100</sub>).
- If no market-based emission factors are provided in Scope 2, the emission factor for location-based methodology is applied for calculating market-based emissions.
- Emission factors for natural gas and electricity supply are adjusted to local conditions (residual mix) in location-based calculations. All other emission factors refer to the respective higher granularity level (Country → Europe → Global).

### Waste management

- This query category is intended to gather initial Scope 3 information and assess the data foundation. If there is insufficient information available for the report, disclosure of data in this report will be omitted.

### Water consumption

- Due to the absence of measuring equipment and metering infrastructure at some sites, only water intake from municipal water supply is addressed.

# Summary of GRI indicators

## Environmental

GRI ref.	ESRS ref.	Indicator description	Assurance <sup>1</sup>	2022	2023
<b>302-1</b>	<b>E1-5</b>	<b>Energy consumption within the organization (megawatt-hours – MWh)</b>			
		Biofuels <sup>3</sup>	✓	–	–
		Coal <sup>3</sup>	✓	–	–
		Oil (for heating)	✓	–	–
		Petrol		–	14,43
		– of which leased vehicles	✓	–	–
		Diesel		–	732,93
		– of which leased vehicles	✓	–	–
		Liquid gas (LPG)	✓	–	–
		Natural gas	✓	487,95	458,28
		District heat consumption	✓	–	–
		District cooling consumption	✓	–	–
		Electricity consumption <sup>4</sup>	✓	660,82	655,84
		– of which company-owned and leased vehicles	✓	–	–
		Consumption of steam	✓	–	–
		<b>Total energy used</b>		<b>1.836,58</b>	<b>1.861,49</b>
		Electricity generated	✓	77,09	41,52
		– of which electricity from regenerative systems	✓	77,09	41,52
		Distribution of energy	✓	38,55	41,52
		– of which electricity sold	✓	38,55	41,52
		<b>Total energy consumption within the organization from renewable sources</b>		<b>289,95</b>	<b>0,00</b>
		<b>Total energy consumption within the organization from non-renewable sources</b>		<b>1.546,64</b>	<b>1.861,49</b>
		<b>Share of renewable sources in total energy consumption (in %)</b>		<b>15,8%</b>	<b>0,0%</b>
<b>302-3</b>	<b>E1-4</b>	<b>Energy intensity</b>			
		Sales revenue (million EUR in sales)	✓	63,69	74,89
		Attendance time	✓	242.631,24	254.203,16
		Order-related performance hours		–	29.576,40
		Floor area of company-owned buildings	✓	10.000,00	10.000,00
		Number of employees	✓	155,00	158,00
		Produced units	✓	–	–

# Summary of GRI indicators

## Environmental

GRI ref.	ESRS ref.	Indicator description	Assurance <sup>1</sup>	2022	2023
<b>302-3</b>	<b>E1-4</b>	<b>Energy intensity</b>			
		Assembled units	✓	42.069,00	49.784,00
		<b>Intensity metric (kWh/million EUR in sales)</b>		<b>28.836,36</b>	<b>24.856,60</b>
		<b>Intensity metric (kWh/hour of attendance)</b>		<b>7,57</b>	<b>7,32</b>
		<b>Intensity metric (kWh/hour of performance)</b>		–	62,94
		<b>Intensity metric (kWh/square metre)</b>		<b>183,66</b>	<b>18,61</b>
		<b>Intensity metric (MWh/employee)</b>		<b>11,85</b>	<b>11,78</b>
		<b>Intensity metric (kWh/produced unit)</b>		–	–
		<b>Intensity metric (kWh/assembled unit)</b>		<b>43,66</b>	<b>37,39</b>
<b>303-3</b>	<b>E3-4</b>	<b>Water withdrawal (cubic metres)</b>			
		Purchased from water companies	✓	2.184,00	1.931,00
		Groundwater extracted by SEW-EURODRIVE <sup>2</sup>		–	–
		Surface water extracted by SEW-EURODRIVE <sup>2</sup>		–	–
		Collection of rainwater <sup>5</sup>		–	–
		Waste water from external source <sup>2</sup>		–	–
		Water withdrawal from areas of water stress <sup>2</sup>		–	–
		<b>Total water withdrawal</b>		<b>2.184,00</b>	<b>1.931,00</b>
<b>305-1</b>	<b>E1-6</b>	<b>Direct greenhouse gas emissions (tCO<sub>2</sub>eq)</b>			
		Natural gas consumption	✓	107,52	107,24
		Heating processes (oil / liquid gas)	✓	–	–
		Production processes <sup>6</sup>	✓	–	–
		<b>Total scope 1.1 GHG emissions</b>		<b>107,52</b>	<b>107,24</b>
		Vehicle fleet <sup>7</sup>	✓	246,41	270,11
		Other mobile equipment <sup>6</sup>	✓	–	–
		<b>Total scope 1.2 GHG emissions</b>		<b>246,41</b>	<b>270,11</b>
		VOC-Emissions <sup>8</sup>	✓	0,00	0,00
		Leakage of refrigerants <sup>9</sup>	✓	–	–
		<b>Total scope 1.3 GHG emissions</b>		<b>0,00</b>	<b>0,00</b>
		ETS-Processes <sup>10</sup>	✓	–	–
		<b>Total scope 1.4 GHG emissions</b>		–	–
		<b>Total scope 1 GHG emissions</b>		<b>353,93</b>	<b>377,34</b>

# Summary of GRI indicators

## Environmental

GRI ref.	ESRS ref.	Indicator description	Assurance <sup>1</sup>	2022	2023
<b>305-2</b>	<b>E1-6</b>	<b>Indirect location-based greenhouse gas emissions (tCO<sub>2</sub>eq)</b>			
		Electricity consumption	✓	183,24	165,20
		Electricity for charging vehicles	✓	–	–
		<b>Total location-based scope 2.1 GHG emissions</b>		<b>183,24</b>	<b>165,20</b>
		District heat consumption	✓	–	–
		District cooling consumption	✓	–	–
		<b>Total location-based scope 2.2 GHG emissions</b>		–	–
		Steam consumption	✓	–	–
		<b>Total location-based scope 2.3 GHG emissions</b>		–	–
		<b>Total location-based scope 2 GHG emissions</b>		<b>183,24</b>	<b>165,20</b>
		<b>Total scope 1 and 2 GHG emissions (location-based)</b>		<b>537,16</b>	<b>542,55</b>
<b>305-2</b>	<b>E1-6</b>	<b>Indirect market-based greenhouse gas emissions (tCO<sub>2</sub>eq)</b>			
		Electricity consumption	✓	140,01	125,40
		Electricity for charging vehicles	✓	–	–
		<b>Total market-based scope 2.1 GHG emissions</b>		<b>140,01</b>	<b>125,40</b>
		District heat consumption	✓	–	–
		District cooling consumption	✓	–	–
		<b>Total market-based scope 2.2 GHG emissions</b>		–	–
		Steam consumption	✓	–	–
		<b>Total market-based scope 2.3 GHG emissions</b>		–	–
		<b>Total market-based scope 2 GHG emissions</b>		<b>140,01</b>	<b>125,40</b>
		<b>Total Scope 1 and 2 GHG emissions (market-based)</b>		<b>493,93</b>	<b>502,75</b>
<b>305-3</b>	<b>E1-6</b>	<b>Other indirect greenhouse gas emissions<sup>11</sup> (tCO<sub>2</sub>eq)</b>			
		Rented and leased vehicles	✓	–	–
		<b>Total scope 3.8 GHG emissions</b>		–	–
<b>305-4</b>	<b>E1-6</b>	<b>Intensity of emissions (tCO<sub>2</sub>e/million EUR in sales)</b>			
		<b>Intensity of scope 1 and 2 emissions</b>		<b>8,43</b>	<b>7,24</b>
<b>306-3</b>	<b>E5-5</b>	<b>Waste generated (tons)</b>			
		Total waste (generated)	✓	20,89	20,20

# Summary of GRI indicators

## Environmental

GRI ref.	ESRS ref.	Indicator description	Assurance <sup>1</sup>	2022	2023
<b>306-4</b>	<b>E5-5</b>	<b>Waste diverted from disposal (tons)</b>			
		Non-hazardous waste recycled		—	—
		Scrap metal recycled		—	—
		Other non-hazardous waste recycled		—	—
		Hazardous waste recycled		—	—
<b>306-5</b>	<b>E5-5</b>	<b>Waste directed to disposal (tons)</b>			
		Non-hazardous waste sent for disposal		—	—
		Sent to incineration with energy recovery		—	—
		Sent to landfill or other disposal method		—	—
		Waste from construction and demolition		—	—
		Hazardous waste sent for disposal		—	—

**Note: Due to rounding, numbers presented in the GRI table may not add to the totals provided.**

<sup>1</sup> No data assurance could be performed due to missing information from the previous year

<sup>2</sup> Refers to the source of the emission factors

<sup>3</sup> Category or activity does not apply in the business area of SEW-EURODRIVE

<sup>4</sup> Self-generated electricity from the CHPs (combined heat and power plants) is not taken into account here in order to avoid double counting

<sup>5</sup> Due to the lack of measurement data, no data can be collected

<sup>6</sup> Including the hardening shop, distribution processes

<sup>7</sup> Only company-owned vehicles powered by fossil fuels are taken into account here.

<sup>8</sup> Emissions due to coating processes

<sup>9</sup> No reportable refrigerant leaks occurred during the reporting period. Refilled refrigerant quantities in the course of maintenance and servicing work are not recorded by the current methodology and data volume."

<sup>10</sup> These emission values only apply to business units with energy-intensive plants (e.g. blast furnaces, refineries, aluminum plants). This does not apply to SEW-EURODRIVE's business processes."

<sup>11</sup> This year's reporting will focus on Scopes 1 and 2. In order to take into account the shift in emissions due to the use of rented or leased vehicles, their emissions are disclosed in Scope 3.8."



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