



MOOVIMENTA

ENVIRONMENTAL REPORT

2024



INTRODUCTION

Cultivating environmental accountability

At Moovimenta, we pledge to be transparent and open in our communication about our environmental performance, whether we are achieving progress or facing challenges. Our goal is to make our sustainability report both readable and accessible, continuously improving data accuracy. This report includes revisions to previously reported data, reflecting our commitment to transparency and continuous improvement.

This report highlights our environmental efforts and impacts for the year 2024 (January 1st – December 31st). It covers all Moovimenta Divisions: Habasit, Rossi, NGI, and TRAPO, each operating under its own brand.

We address key environmental aspects relevant to our business, such as greenhouse gas (GHG) emissions (Scope 1 and 2), volatile organic compound (VOC) emissions, energy use, water use, and waste generation.

Your feedback and comments are welcome to help us improve.

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MOOVIMENTA: A BRIEF OVERVIEW

Our mission and values

Picture a world where industries harmonize with nature, where each innovation fosters a healthier planet and a brighter future for us and generations to come. At Moovimenta, sustainability isn't just a goal; it's the guiding principle behind everything we do. Our commitment to sustainability drives us forward, from reducing carbon footprints to improving operational efficiencies.

At Moovimenta, our mission is to accelerate the transition to a sustainable, smarter, and safer industrial reality. We believe in industrial growth to benefit people without draining the planet. We are here to make our customers' equipment and processes more sustainable, smarter, and safer.

Our values

Entrepreneurship

is our passion – we foster a spirit of initiative, ownership, and commitment at all levels.

Quality you can trust

is our mindset – we are committed to providing outstanding customer experiences with best-in-class products and services.

Continuous improvement

is our energy – we are continuously moving to the next level of performance.

Collaboration

is our leverage – we create synergies and learning experiences through teamwork and open interaction.

Organizational pride

is the evidence of our success as an employer.

Ethical standards

is our credo – we respect diversity and strive for sustainability in all areas.

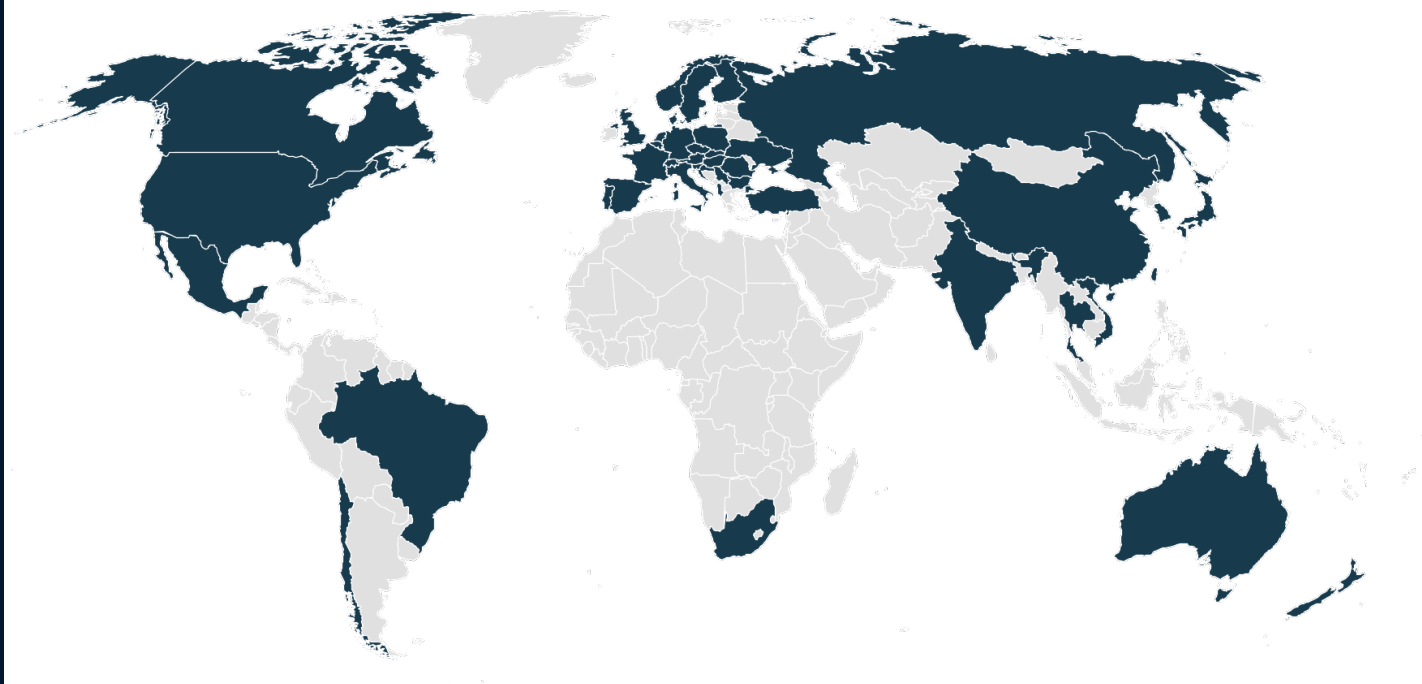


MOOVIMENTA: A BRIEF OVERVIEW

Driving industrial innovation

Moovimenta drives innovation and delivers top-quality components and services for the manufacturing industry through our four dedicated companies.

We are committed to transforming industrial processes by enhancing sustainability, intelligence, and safety. Our Corporate Accelerator serves as the hub for spearheading and coordinating innovation across the Moovimenta group. By leveraging the distinct expertise within each of our divisions, we foster collaboration that leads to significant improvements in our customers processes.



Direct presence in

90+

locations

4,900+

employees

36,000+

active clients

A message from our Group CEO



Andrea Volpi
Group CEO

Moovimenta is strongly committed to a sustainable future, a statement that is embedded in our Mission. The path to this commitment began many years ago. Since 2010, individual Moovimenta entities joined country-specific initiatives or programs for energy saving and CO₂ reduction, for example the EnAW program (Energie-Agentur der Wirtschaft; commitment to a CO₂ reduction path) in Switzerland, where our largest production site is based.

Moovimenta started collecting environmental data in 2020, without a legal obligation. The set of metrics was selected based on careful considerations, focusing on Scope 1 and 2, water, waste, and VOC emissions. The main challenge was getting the organization started reporting

non-financial data, conducting consistency checks, and translating energy consumption into reliable CO₂e emission figures. All data were consolidated and presented in an internal Group report, well before publishing our first environmental report. This reflects our long-standing commitment to both action and transparency, even ahead of formal external reporting. This was the start of Moovimenta's baselining process. Driven by the alarming reports on climate change, Moovimenta wanted to understand where it stands and how it can contribute to fighting this global challenge. Sustainability criteria have become an increasingly important factor in our CAPEX approvals. Our R&D efforts are focused on designing products that help customers use resources more efficiently. Improvements made during the product's use phase, such as reducing energy, water, materials, or cleaning agents, can have a greater overall impact than optimizations within our own operations.

Starting 2023, Moovimenta published its first Group environmental report for 2022 with 2020 as the baseline year and made it available to all stakeholders. We are now happy to present our third report in a row. Data collection has become more efficient, some metrics were added or adjusted, and the organization has become familiar with them. We pledge to be transparent and open in our communication about our environmental performance, whether we are achieving

progress or facing challenges. Our goal is to make our environmental report both readable and accessible, while continuously improving data accuracy.

"We pledge to be transparent and open in our communication about our environmental performance, whether we are achieving progress or facing challenges."

In light of the current and upcoming EU regulations, including CSRD, CBAM, CSDDD, EU Taxonomy, EUDR, our attention had shifted towards what we need to do to comply. According to the original CSRD regulations, four Moovimenta entities in Europe would have been in scope to report in 2026 on 2025 data. Due to the extensive nature of the regulations, a significant amount of time and resources were dedicated to understanding and interpreting them, preparing and initiating the relevant measures.

We believe that the effort and resources required for compliance and reporting should be proportionate to the value they deliver. While we fully recognize that reporting is a vital component of sustainability, we also believe that it should not become an excessive burden

on sustainability teams. Our primary focus must remain on driving meaningful actions that reduce our environmental impact, rather than diverting critical time and resources away from those efforts. The EU regulations have faced growing criticism, particularly regarding the cost of compliance for companies. Amid a shifting international political landscape, on January 29, 2025, the EU Commission introduced the first Omnibus package, which included the legislative proposals:

- "Stop-the-clock",
- Sustainability reporting simplification,
- CBAM simplification,
- a draft to make EU Taxonomy reporting simpler and more cost-effective

By April 2025, the "Stop-the-clock" proposal was accepted, meaning that companies in scope gain at least two more years of time. The decision on the other proposals is still pending.

At Moovimenta, we welcome the adoption of the "Stop-the-clock" decision and remain hopeful that the other simplification measures will also be approved. To be clear, this development does not lessen our commitment to sustainability. Rather, the two year extension provide the necessary space to refocus our efforts on projects and initiatives that drive real, measurable impact. However, in the course of preparing for the CSRD reporting, Moovimenta has performed a Double Materiality Assessment (DMA). You will find key findings of our DMA outlined in the present report.

Committing to sustainable development goals

Our sustainability strategy follows the United Nations Sustainable Development Goals (SDGs) and the United Nations Global Compact (UNGC) principles. Why these goals?

<p>8 DECENT WORK AND ECONOMIC GROWTH</p> 	<p>9 INDUSTRY, INNOVATION AND INFRASTRUCTURE</p> 	<p>12 RESPONSIBLE CONSUMPTION AND PRODUCTION</p> 	<p>13 CLIMATE ACTION</p> 	<p>17 PARTNERSHIPS FOR THE GOALS</p> 
<p>Promoting inclusive economic growth</p> <p>Commitment: We believe in economic growth that is sustainable, inclusive, and provides decent work opportunities for all without harming people or draining the planet.</p> <p>Actions: Implement fair labor practices across the entire value chain, ensure safe working conditions for all employees, and foster employee development.</p>	<p>Innovating for sustainable solutions</p> <p>Commitment: We commit to challenging our operations and supply chain to focus our innovation activities in the field of sustainable solutions.</p> <p>Actions: Invest in innovative technologies that will improve the conditions of people without harming the planet and enhance industrial processes.</p>	<p>Minimizing environmental footprint through sustainable practices</p> <p>Commitment: We prioritize responsible resources consumption to reduce our environmental footprint and promote sustainable and ethical production.</p> <p>Actions: Optimize energy, water and raw material use, reduce waste generation, promote circularity within our production and fabrication processes and implement sustainable procurement practices.</p>	<p>Leading climate action and resilience</p> <p>Commitment: We are committed to achieving Carbon Net Zero by 2030 and promoting climate-resilient practices in our operations and supply chain.</p> <p>Actions: Reduce greenhouse gas emissions on a yearly basis, improve energy efficiency, and support renewable energy initiatives.</p>	<p>Building partnerships for sustainable development</p> <p>Commitment: We are committed to working with our customers, suppliers, and other stakeholders to promote sustainable development.</p> <p>Actions: Collaborate with stakeholders across our value chain and engage in community partnerships.</p>

Double materiality assessment: Process and findings

In 2024, we conducted our first Double Materiality Assessment (DMA), aligning with CSRD and ESRS guidance. The process was led in-house by our Sustainability and Finance teams, supported by colleagues from across the business and stakeholder groups.

We applied a structured top-down approach to identify the **impacts, risks, and opportunities (IROs)** most relevant to our business. This included stakeholder surveys, targeted interviews, and desktop research.

Key steps in our DMA included:

- Mapping potential and actual IROs using the ESRS methodology (severity, likelihood, time horizon).
- Classifying impacts by whether they occur in our own operations or in the upstream/downstream value chain.
- Assessing risks and opportunities for their financial magnitude and probability, using a threshold aligned with our financial materiality (1% of turnover).

We did not offset positive and negative impacts, nor consider every actor in the value chain, focusing instead on areas of highest relevance. The final material IROs reflect both stakeholder feedback and internal consensus.

Our five most material topics are:

- **Climate change mitigation**
- **Energy use across the value chain**
- **Circular economy and end-of-life solutions**
- **Health & safety in our own operations**
- **Workforce training and development**

We will review our DMA annually, reflecting evolving stakeholder expectations, business changes, and regulatory guidance.





STEPS TOWARDS OUR GOALS

Double materiality assessment: Turning insights into actions

Our Double Materiality Assessment has set the direction, now we move forward.

We are currently developing targeted action plans for our five most material topics. These plans will guide our next steps and align with both our sustainability ambitions and regulatory expectations.

At the same time, we are conducting a **gap analysis** to ensure our future reporting is fully aligned with CSRD requirements, especially around:

- **Social topics**
- **Scope 3 emissions**
- **Circular economy principles**

We are closely monitoring the EU's CSRD Omnibus proposal. Once finalized, it will give much-needed clarity on reporting scope, timelines and simplification opportunities. We are prepared to move into action and reporting as soon as the proposal is confirmed.

STEPS TOWARDS OUR GOALS

Achieving carbon net zero by 2030

Achieving carbon net zero for Scope 1 & 2 emissions by 2030 is a key target in Moovimenta's climate strategy, aligned with SDG 13: Climate Action. This ambitious target reflects our commitment to respond to the global call to address climate change and promote sustainable practices throughout our operations.

Key initiatives

1 Energy efficiency improvements and operational optimizations

Actions: Upgrading to energy-efficient equipment and systems. Implementing best practices and technologies to optimize processes.

2 Renewable energy integration

Actions: Transitioning to renewable energy sources such as solar, wind, and hydropower. Investing in solar plant installations.

3 Fleet electrification

Actions: Promoting the use of electric and hybrid company vehicles instead of fuel vehicles.

Progress and milestones

2020

Defined 2020 as the baseline year and started collecting data on an annual basis.

2021

Transitioned our main sites at Habasit, NGI, and TRAPO to renewable electricity sources. Commissioned the first solar power roof plant at Habasit.

2022

More than doubled our total renewable energy consumption compared to 2021.

2022–2023

Commissioned three more solar installations across Habasit and a small-scale solar plant at Rossi. Replaced several internal combustion engine vehicles with electric ones.

2023

Achieved a 14% reduction in carbon footprint (scope 1&2) compared to the 2020 baseline, despite the inclusion of scope 1 emissions from company vehicles starting in 2022.

2024

Achieved a 14% reduction in carbon footprint (scope 1&2) compared to the 2020 baseline, despite the inclusion of scope 1 emissions from company vehicles starting in 2022.

2030

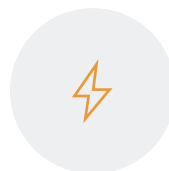
Goal to achieve carbon net zero for scope 1 and 2 emissions.



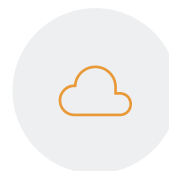
Moovimenta environmental impact assessment

Across all divisions, we monitor five key impact categories: energy use, greenhouse gas (GHG) emissions, volatile organic compounds (VOC) emissions, water use, and waste generation. This year, we have significantly improved the quality and comprehensiveness of our data. As a result, we updated the values previously reported on our 2023 environmental report.

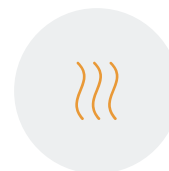
Tracking our progress in these categories allows us to evaluate our environmental footprint and take proactive measures to achieve our targets. Given the diverse operations within each division, we provide an overview of general trends in the data. More detailed explanations and insights can be found in each division's section.



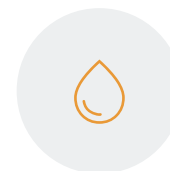
Energy use



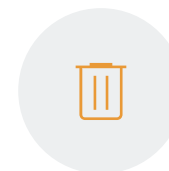
GHG emissions



VOC emissions



Water use



Waste generation

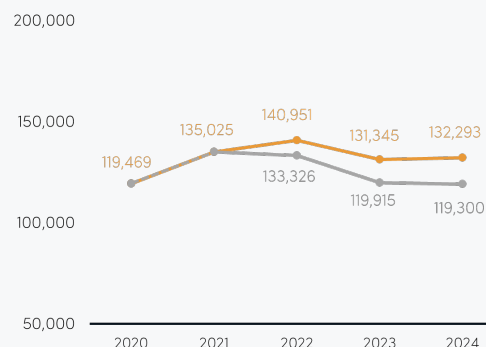


Energy use

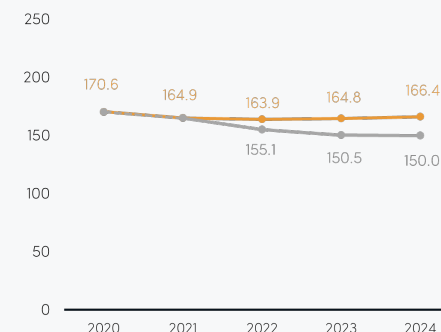
Our energy use includes purchased electricity, district heating, fossil fuels for building heating and operational processes, and on-site solar generation. Since 2022, fossil fuels used in company vehicles have been included, shown as the grey trend line.

Between 2023 and 2024, total energy consumption remained relatively stable, rising slightly by 0.7%. Excluding company vehicles, energy use fell by 0.5%, highlighting that the increase stems mainly from vehicle-related fuel consumption. This uptick is linked to a growing vehicle fleet and improved reporting accuracy, as more sites and refined fuel-use estimates are now included.

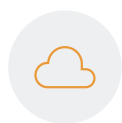
Energy use
[MWh]



Energy use indexed to net revenue
[MWh/MCHF]



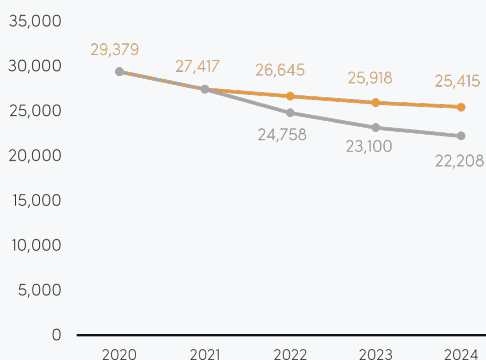
Note: The energy use values have been updated compared to the 2023 report. Explanations for the changes are provided in each division's impact assessment.



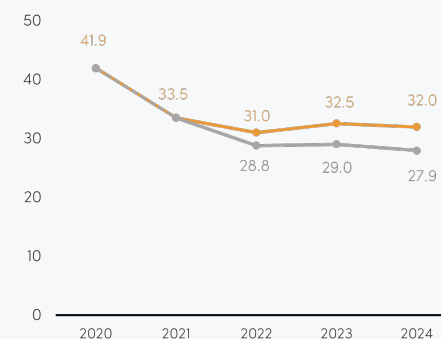
GHG emissions

Since 2020, our GHG emissions have shown a consistent downward trend, even after the inclusion of company vehicle emissions from 2022 onwards. Between 2023 and 2024, total emissions declined by 1.9%, with emissions excluding vehicles falling by 3.8%. This reflects ongoing improvements in energy efficiency and our continued reliance on renewable electricity, underscoring steady progress toward our carbon net-zero ambition.

GHG emissions
[tCO₂e]



GHG emissions indexed to net revenues
[tCO₂e/MCHF]



Note: The GHG emissions values have been updated compared to the 2023 report. Explanations for the changes are provided in each division's impact assessment.

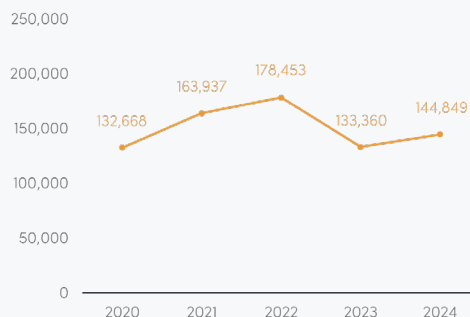


VOC emissions

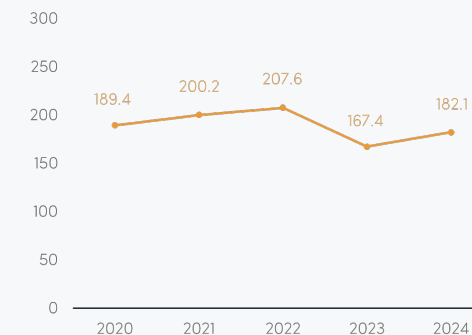
Tracking volatile organic compound emissions involves systematic measurement or estimation based on solvent VOC content. It is crucial to monitor and reduce these emissions to enhance employee safety and safeguard the environment.

VOC emissions increased from 2020 to 2022 due to higher solvent use, peaking in 2022. A sharp drop followed in 2023 driven by reduced solvent consumption resulting from lower production volumes, the implementation of solvent-saving measures, and minor shifts in the product portfolio. In 2024, emissions increased slightly, mainly due to higher solvent use at one site, where the solvents used have a relatively high VOC/solvent ratio.

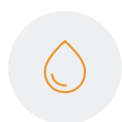
VOC emissions [kg VOC]



VOC emissions indexed to net revenues [kg VOC/MCHF]



Note: The VOC emission values have been updated compared to the 2023 report. Explanations for the changes are provided in each division's impact assessment.



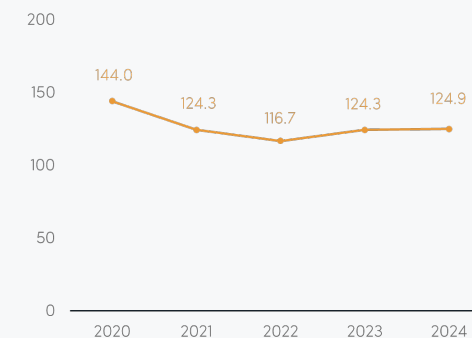
Water use

Water consumption has remained stable over the past five years, with a slight overall decrease. In 2024, usage totaled 99,330 m³, continuing the gradual downward trend since 2021. Water usage varies across divisions, typically correlating with production volume or employee attendance. As water is a finite resource, we remain committed to its responsible use and to identifying new ways to reduce our consumption further.

Water use [m³]



Water use indexed to net revenues [m³/MCHF]



Note: The water use values have been updated compared to the 2023 report. Explanations for the changes are provided in each division's impact assessment.



Waste generation and disposal

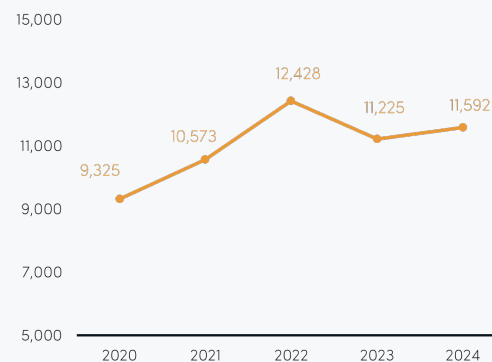
In 2024, total waste across Moovimenta increased slightly to 11,591 tonnes, about a 3% rise from the previous year. This trend reflects various operational developments across our divisions, including production increases at some sites, improved waste sorting practices, and site clean-ups. Thanks to strengthened group-wide monitoring, particularly at Habasit and Rossi, data coverage and reporting accuracy continued to improve, with broader inclusion of office and canteen waste.

Hazardous waste accounted for 9% of total waste in 2024, marking a slight decrease compared to 2023, while non-hazardous waste remained the dominant stream. All divisions prioritize safe and compliant disposal of hazardous waste, with most directed to recycling and incineration.

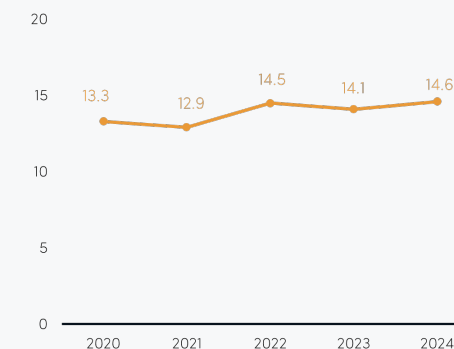
We maintained a strong waste treatment profile: 41% of total waste was recycled and 21% incinerated. Landfill volumes decreased for the second consecutive year and now represent just 35% of the total.

While year-on-year changes in waste generation vary by division, our collective focus remains clear: to improve circularity, reduce reliance on landfill, and promote responsible resource use across all operations.

Waste generation [t]

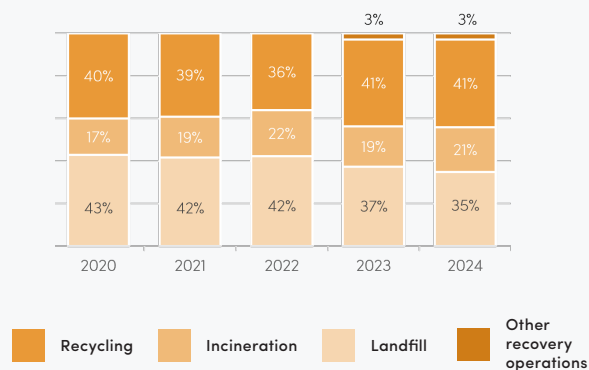


Waste generation indexed to net revenues [t/MCHF]

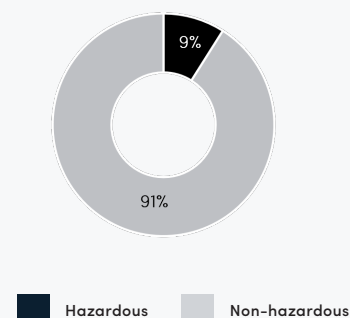


Note: The waste generation values have been updated compared to the 2023 report. Explanations for the changes are provided in each division's impact assessment.

Waste disposal [%]



Share of hazardous & non-hazardous waste in 2024 [%]





HABASIT

Interview with Habasit CEO

In this interview with Ivan Salamin, CEO of Habasit, we explore his insights on sustainability and the company's strategic approach.



Ivan Salamin
Habasit CEO

Over the past year, what key sustainability challenges has Habasit faced, and how has Habasit tackled them?

One of the primary challenges over the past year has been fostering a consistent understanding of ESG principles across all levels of the organization. Embedding sustainability into the core of a global business requires more than setting targets; it calls for a shift in mindset and culture. To support this transition, we trained our teams on ESG

principles and our sustainable products. This training effort reflects a broader global increase in environmental awareness, to which we are committed to contributing through our initiatives. In addition, we will launch further ESG engagement campaigns, including training sessions such as Climate Fresk, internal communications, and increased leadership involvement. We have also observed a growing interest among colleagues in promoting sustainability efforts, including proposals for solar panel installations, building insulation, smart building technologies (domotics), and more. This bottom-up engagement shows that our people are key drivers of change.

In what ways has Habasit advanced its sustainability commitments?

Over the past year, we made tangible progress by reducing our carbon footprint, particularly through investments in solar energy. We are currently working on projects aimed at significantly lowering our emissions. For example, we have just launched a major investment project at our main production site in Switzerland, which will reduce our CO₂ emissions by 50%. We are also evaluating additional GHG reduction initiatives, such as further solar installations and energy-saving

measures, which are expected to further decrease our Scope 1 and Scope 2 emissions.

"Sustainability is not a destination; we are just at the beginning of a long journey, one that will help create a better world for generations to come."

How do you see sustainability shaping the future of our industry?

We have seen an acceleration in the deployment of sustainability projects over the past decade, with momentum increasing significantly after the post-COVID energy price surge. Even if we might perceive a slowdown or temporary delays, such as the "Stop-the-Clock" Directive as part of the Omnibus I package, I remain confident that we are still progressing. Looking at Habasit's project pipeline and reading the statements of our main competitors, it is clear that our industry is moving toward more sustainable production. This shift will also bring more energy-efficient belt solutions to the market.

Looking ahead, what is one area of sustainability you believe will be a major focus for Habasit in the next five years?

We aim to cut our operational carbon footprint through modern production technologies. Our new thermal oxidizing units in Reinach alone are set to halve emissions by 2028. We will continue to develop our energy-efficient belts. Even today, we help customers save energy while expanding our business in segments such as material handling, treadmill belts, the textile industry, and recycling and sorting applications. We support the recycling and sorting industry with new lightweight conveyor belts that replace heavy rubber belts. Our easy-to-clean belts help reduce water and detergent usage by minimizing dirt accumulation from the outset.

If you could share one message with employees and stakeholders about our sustainability journey, what would it be?

Sustainability is not a destination; we are just at the beginning of a long journey, one that will help create a better world for generations to come.



HABASIT IN BRIEF

Habasit, global expert in premium, innovative, and sustainable belting applications

For over 75 years, Habasit has led the innovation in the belting industry through combining deep industry knowledge and engineering experience. Besides understanding our customers' needs, we anticipate them, delivering innovative solutions supported through expert service and global reach in more than 70 countries.

The Habasit brand is consistently recognized for its quality and innovation. It stems from our long-term orientation to generate added value for our customers. From high-quality materials used in our products to the state-of-the-art technologies use in our processes and the quality and innovation mindset embraced by every Habasit team member, we are committed to being the best-in-class.

Innovating the world of belting

Through our focus on critical customer applications, we design and develop solutions that aim to solve their challenges. Our deep industry experience and application knowledge drive us to innovate belting solutions to benefit our customers' equipment and processes.

Our commitment to strive for sustainability in all industries

The most important objective when improving industrial energy efficiency is to reduce the environmental impact. Our mission is to foster industrial growth that benefits people without draining the planet. Therefore, we source environmentally friendly materials and improve our own operations. We support our customers' sustainability goals with belts that allow them to use less energy, water, or other precious resources.

Our environmental roadmap across the value chain



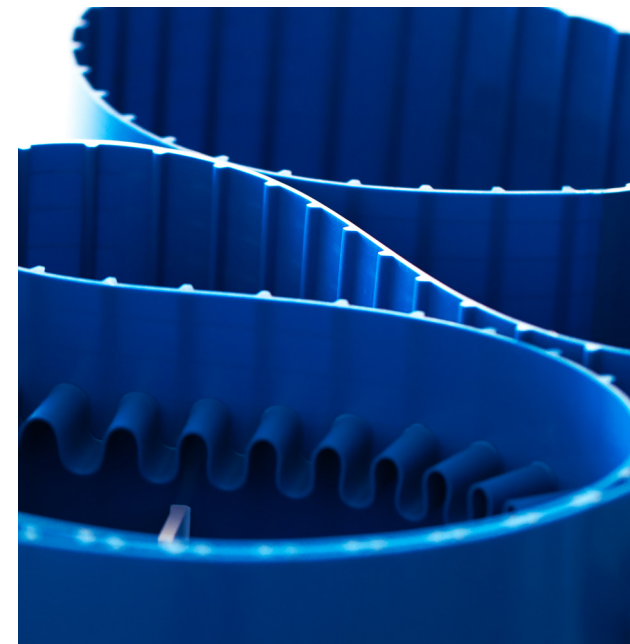
Sustainable sourcing

We collaborate with our suppliers to minimize the environmental impacts of our upstream activities and ensure compliance. We source sustainable raw materials from suppliers who adhere to social, ethical, and environmental guidelines.



Sustainable company

We are committed to minimizing our environmental impact through resource conservation and sustainable manufacturing. This includes optimizing energy use, reducing waste, improving efficiency, and achieving carbon net zero for scope 1 and 2 emissions.



Sustainable products and solutions

We responsibly manufacture our products, incorporating more sustainable, bio-based, and circular raw materials. We aim to improve resource conservation and reduce waste through the performance of our belts in customers' processes.

Safer materials and Smarter recycling



Eliminating bioaccumulating substances from flame retardant belts

We successfully eliminated two substances of high concern, **antimony trioxide** and **triphenyl phosphates**, from our flame-retardant belts, materials widely used in airports and logistics. Antimony trioxide, in particular, accumulates in soils and sediments, harms aquatic life, and is potentially cancerogenic. Our innovation **keeps people and the environment safer without compromising fire safety**.

Key impacts:

- **Phased out antimony trioxide and triphenyl phosphate** from flame-retardant belts.
- **Maintained high flame-retardant performance** to protect customer operations.
- **Reduced environmental and health risks** across all industries using these belts.



Making waste recycling and sorting more efficient – and safer for workers

Recycling and sorting facilities traditionally use heavy rubber belts that consume large amounts of material and energy. We saw an opportunity to develop a series of **lightweight, abrasion and chemical-resistant alternatives**, without **sacrificing performance**.

Key impacts:

- Enables **lighter conveyor designs with smaller gear motors, and rollers**.
- **Lowers operational noise by 10–15 dB**, helping protect workers from hearing damage.
- **Saves energy and materials**.

Resource savings in textiles & food production



Helping the textile industry save energy

The textile industry consumes roughly **1 trillion kWh of electricity each year**, with yarn spinning accounting for about one-third of this total. To address this, we designed a new series of **power transmission belts** with a special cover material that improves grip and reduces energy consumption.

Key impacts:

- Lowers energy use in yarn spinning by **up to 7%**, as confirmed by customer trials.
- Provides **durable performance**, extending belt lifetime and reducing replacement needs.
- Supports a more **energy-efficient and sustainable textile sector**.

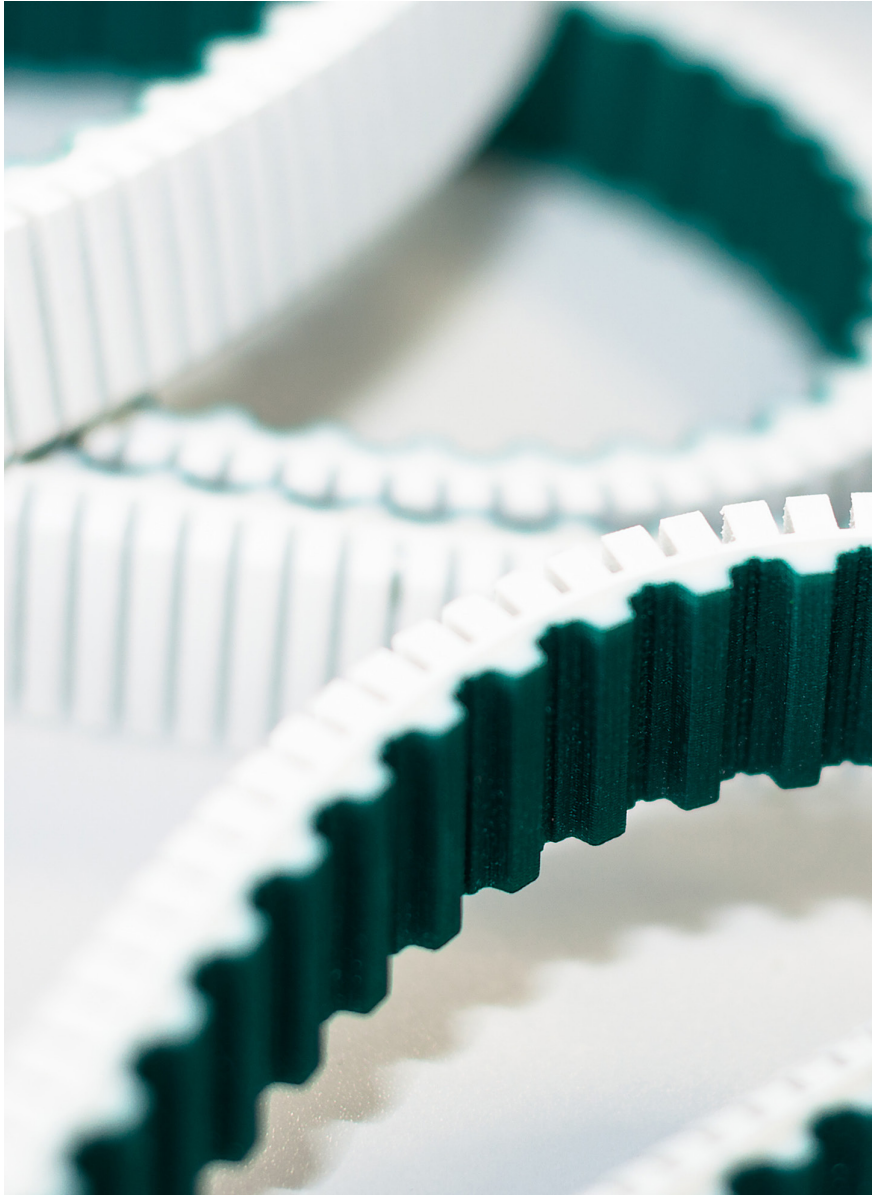


Reducing cleaning effort with lotus surface

Food production—especially sticky products like dough, red meat, poultry and fish, often requires intensive cleaning to remove residues from conveyor belts. **The Lotus surface embossing minimizes this buildup.**

Key impacts:

- Cuts residue buildup by up to **80%**, **reducing cleaning time and chemicals**.
- **Lowers water and detergent use**, decreasing the plant's environmental footprint.
- Keeps **production lines running longer** between cleanings, improving efficiency.



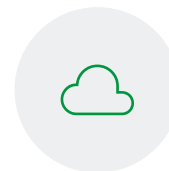
Habasisit environmental impact assessment

We evaluated energy consumption, greenhouse gas (GHG) emissions, volatile organic compound (VOC) emissions, water usage, and waste generation across all sites with five or more full-time equivalent (FTE) employees. This covered 59 locations in 2024, 54 in 2023, 55 in 2022, and 56 in both 2021 and 2020. Our data collection approach combines direct measurements and utility invoices, with a strong preference for primary data wherever available.

A clear understanding of our environmental footprint enables us to design and implement more effective strategies to reduce our impact. As data quality and completeness continue to improve, we have updated some of the figures previously reported in the 2023 environmental report. These revisions are clearly indicated throughout the report.



Energy use



GHG emissions



VOC emissions



Water use



Waste generation



Energy use

Reducing energy consumption remains the primary and central element of our carbon net zero strategy.

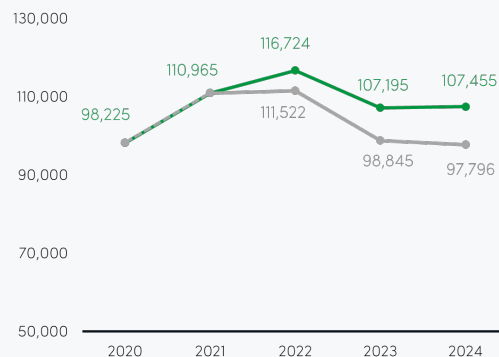
Our operational processes, such as injection molding, extrusion, calendaring, and vulcanization, rely on pressure and heat, primarily generated using electricity, but also derived from fossil fuel combustion. Natural gas is the main component of our fossil fuel mix, fueling both our processes and building heating. Our production sites consume the highest amount of energy, constituting 77% of the total energy use, while our fabrication sites, primarily reliant on electricity, account for the remaining 23%.

Since 2022, we have been tracking energy use from company vehicles. By 2024, all 59 sites with vehicle operations reported their fuel consumption. For consistency and transparency, we also present energy consumption data excluding vehicle fuel, shown in grey, enabling more accurate year-over-year comparisons.

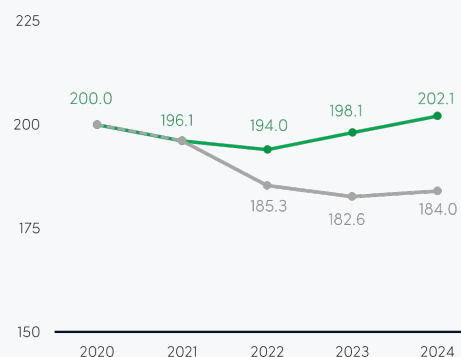
The slight increase of 0.2% in total energy use in 2024 reflects two main factors: a modest rise in electricity consumption, primarily from solar sources, and more complete reporting of vehicle-related fuel use.

Despite this, our total energy consumption has decreased by 8% since 2022, and by 12% when excluding vehicles. This is driven by energy-efficiency measures, milder winters that lowered heating demand, and reduced production volumes.

Energy use
[MWh]



Energy use indexed to net revenues
[MWh/MCHF]



Note: Energy use values have been updated from the 2023 report. Since 2022, the green trend line includes fuel from company vehicles; the grey line excludes it for comparison.



CASE STUDY

Energy savings initiatives

Between 2023 and 2024, the following sites have replaced their conventional lighting by LED and implemented various energy-saving measures.

Reinach and Brislach, Switzerland

Actions: Installed LED lighting, and replacement to more energy-efficient air compressor.

Impact: Saved more than 395,000 kWh.

Mulhouse, France

Actions: Installed LED lighting.

Impact: Saved more than 86,000 kWh.

Vittorio Veneto, Italy

Actions: Installed LED lighting, and replacement of the heating unit.

Impact: Saved more than 15,000 kWh.

Overall impact

496,000 kWh

total energy savings





GHG emissions

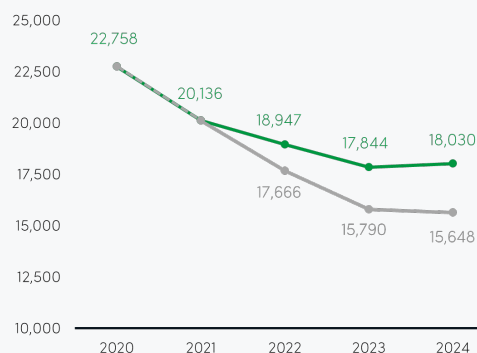
Recognizing the urgency of climate action, we remain committed to reducing our environmental footprint. Our goal to reach carbon net zero for scope 1 and 2 emissions by 2030—aligned with the Science Based Targets initiative (SBTi)—continues to guide our efforts to lower greenhouse gas emissions.

As part of our ongoing efforts to enhance data quality and transparency, we continue to align our calculation methodologies with the GHG Protocol. Scope 2 emissions are reported using both location-based and market-based approaches (refer to table on page 24). The graph illustrates total scope 1 and market-based scope 2 emissions. The grey line represents emissions excluding mobile combustion, which has been included in our data set starting from 2022.

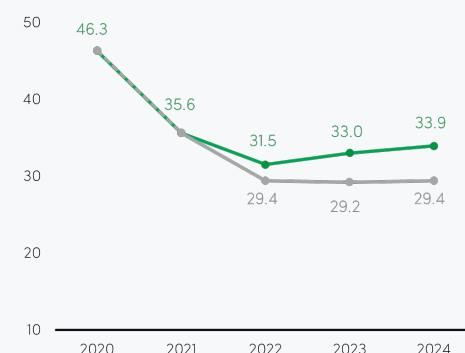
The steady decline in the grey line, from 22,758 tCO₂e in 2020 to 15,648 tCO₂e in 2024, highlights the tangible progress we have made in reducing emissions through decreased fossil fuel use in our facilities and a consistent shift toward renewable electricity. These improvements reflect ongoing investments in solar energy and green power procurement across our sites.

The increase observed in the green line in 2024 is primarily due to more accurate and complete reporting of mobile combustion emissions, as data coverage has expanded to include more locations. This increase does not indicate a reversal in our emissions reduction efforts, but rather our continuous work to improve transparency and completeness in our carbon accounting.

GHG emissions
[tCO₂e]



GHG emissions indexed to net revenues
[tCO₂e/MCHF]



Note: The GHG emission values have been updated compared to the 2023 report. The grey trend line shows the GHG emissions excluding emissions from mobile combustion.



VOC emissions

Solvents are used in our production and fabrication processes. They are primarily employed in production for coating solutions, and in fabrication for adhesives purposes.

In 2024, total solvent consumption decreased by 8%, yet VOC emissions increased. This trend was primarily influenced by a higher solvent consumption at one site, where the VOC/solvent ratio is the highest among the sites.

Furthermore, solvent mix changes at several sites resulted in the use of solvents with lower overall quantities but higher VOC

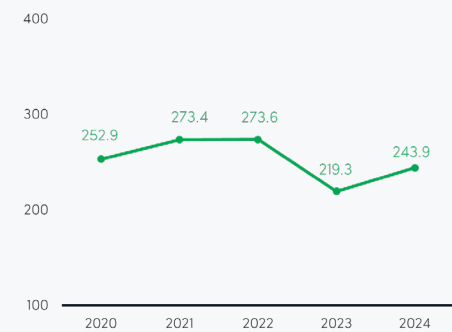
concentrations, contributing to the rise in emissions despite reduced solvent usage.

More than 97% of total VOC emissions originated from just ten facilities. This concentration provides a clear opportunity for targeted mitigation strategies such as switching to VOC-free solvents or water-based solvents, allowing us to focus our efforts where they can deliver the greatest impact.

VOC emissions
[kg VOC]



VOC emissions indexed to net revenues
[kg VOC/MCHF]



Note: The VOC emission values have been updated to reflect a more accurate data set compared to the 2023 report.



Water use

Though our operations are not typically water-intensive, we are committed to responsible management. We avoid harsh chemicals that could harm water quality and prioritize treatment processes when necessary. Our water conservation strategy involves proactive maintenance and targeted investments. In recent years, there has been a progressive upgrade of our manufacturing facilities' water-cooling systems to closed-loop systems. This transition has not only reduced water consumption but also improved overall system efficiency.

Between 2020 and 2024, we achieved an 11% reduction in water consumption — saving approximately 9,310 m³ of water. This is equivalent of the average annual water needs of almost 90 European households based on a 105 m³ per-household annual consumption.

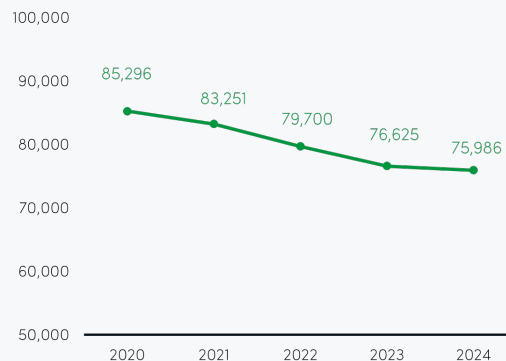
The decline in total water use from 2022 to 2024 can be attributed to lower production volumes and the implementation of water-saving measures by main production and fabrication sites.

However, despite the overall reduction, our indexed water consumption has seen a slight uptick since 2022. This is largely due to increases in non-production-related water use, such as for sanitation and facility maintenance.

Source: Europe's Water in Figures: An overview of the European drinking water and waste water sector, 2021, EurEau

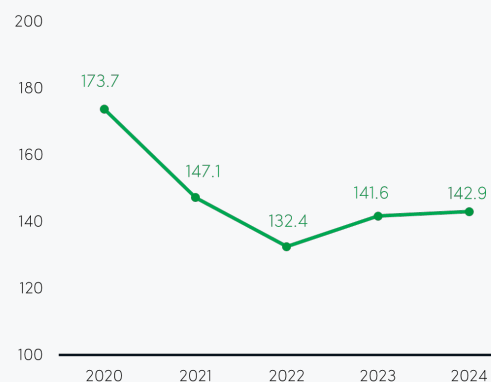
Water use

[m³]



Water use indexed to net revenues

[m³/MCHF]



Note: The water use values have been updated compared to the 2023 report to reflect a more accurate estimation.





CASE STUDY



Habasit Polska: Smarter and more sustainable operations

In early 2023, Habasit moved production from Dąbrowa Górnicza and Sosnowiec to its new site in Czeladź, boosting production efficiency while cutting resource use.

Water conservation

The installation of a closed-loop water cooling system led to an annual water savings of approximately **5,000 m³**, an important step in reducing reliance on freshwater resources.

Energy savings

By relocating radiant gas heaters and eliminating the inefficient ventilation-based heating system, the new site significantly lowered its gas usage for heating by **300,000 kWh**. This has contributed to a carbon reduction of **55 tCO₂e** and more consistent indoor climate control.

Smarter material use

The adoption of AI algorithms for production planning has enabled smarter use of raw materials, reducing waste and minimizing storage needs. Automated storage systems further enhance resource efficiency by optimizing material flow and accessibility.

Overall impact in 2024

5,000 m³

total water savings

300,000 kWh

total energy savings

55 tCO₂e

total carbon savings





Waste generation and disposal

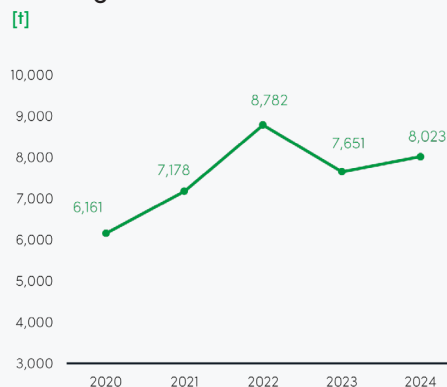
Since 2023, we have implemented a company-wide directive requiring all sites to monitor and report all type of generated waste, resulting in broader coverage and improved data quality. Our reporting includes operational, office, and canteen waste.

While a few gaps remain, primarily in office waste reporting and at smaller locations where waste quantities are minimal or not individually tracked. These do not significantly affect the overall figures, as office waste represents a small fraction of our total and the main production sites are well covered.

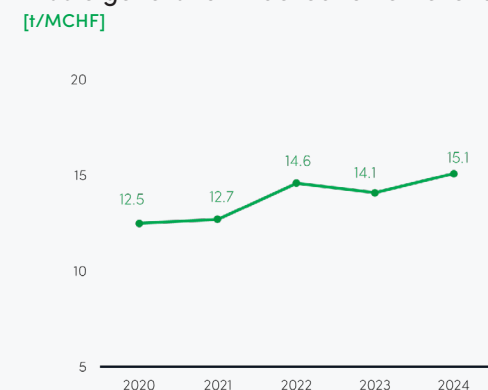
In 2024, total waste generation increased by approximately 5%, primarily driven by higher production volumes at a few production units and inventory clean-ups conducted at multiple locations. Despite the overall increase, landfill waste decreased by 3%, with more waste redirected to incineration and recycling.

Hazardous waste accounted for 3% of total waste in 2024. It was generated at 21 of our 59 sites, with only one site not yet reporting. The majority of hazardous waste is treated through incineration, followed by recycling and landfill disposal.

Waste generation

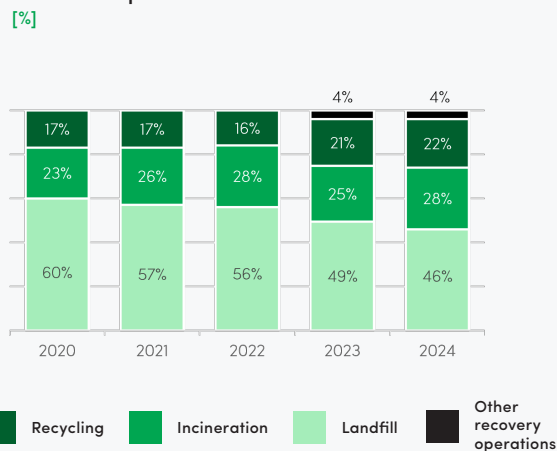


Waste generation indexed to net revenues

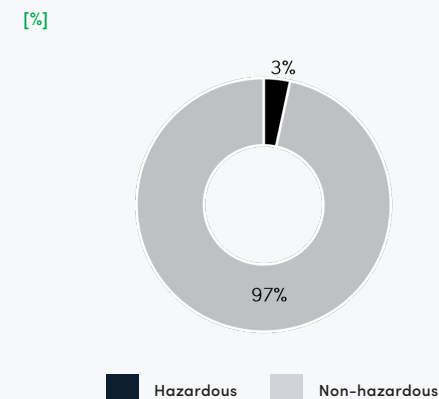


Note: The waste generation values have been updated compared to the 2023 report.

Waste disposal



Share of hazardous & non-hazardous waste in 2024





NGI

Interview with NGI CEO

In the following interview with Jan Nygaard, CEO of NGI, we had the opportunity to gain insight into his organizational perspectives on sustainability.



Jan Nygaard
NGI CEO

At NGI, our commitment to sustainability is deeply rooted in our heritage. Our founder, Knud Nygaard, believed that prioritizing the well-being of employees and building relationships based on mutual trust were fundamental to running a successful business. This mindset continues to guide us today.

Advancing our sustainability commitments

At NGI, we continuously seek innovative ways to enhance energy efficiency and reduce our

environmental footprint. One of our recent initiatives involved optimizing our heating infrastructure by implementing advanced flow valves, which successfully lowered the return temperature in radiators from 45°C to 31°C. This improvement enhances heating efficiency and is expected to reduce our total district heating consumption by approximately 5%. This initiative underscores our commitment to smarter energy use. By making small, targeted improvements to our operations, we actively reduce energy waste and minimize our environmental impact. Looking ahead, we will continue to integrate sustainable practices that drive efficiency and support our long-term environmental goals.

Sustainability shaping our industry

The future of our industry is undeniably intertwined with sustainable practices. At NGI, we see sustainability as a catalyst for innovation, driving us to develop products that not only meet the highest standards of hygiene and efficiency but also minimize environmental impact. By sourcing in 100% renewable energy, such as wind power for our production environment, we are positioning ourselves to lead this transformation.

Leadership's role in embedding sustainability

Leadership at NGI plays a pivotal role in embedding sustainability into our daily operations. We are committed to responsible sourcing and continually work to optimize waste products so that as much as possible is recycled or incinerated. By fostering a culture that values accountability and responsibility, we ensure that sustainable practices are a fundamental part of our business decisions.

"We see sustainability as a catalyst for innovation, driving us to develop products that not only meet the highest standards of hygiene and efficiency but also minimize environmental impact."

Collaboration for meaningful change

We recognize that collaboration is key to driving meaningful change. Our partnerships with suppliers, partners, and customers are centered around shared

sustainability goals. Beyond environmental initiatives, we are very committed to social responsibility, ensuring that our workplace fosters inclusivity and opportunity for all. One of our key partnerships is with Job Center Aalborg, where we focus on creating employment opportunities that match individual skills and capabilities. Rather than fitting people into predefined roles, we recognize that tasks of varying complexity can be adapted to meet different needs—ensuring that every individual can contribute meaningfully. In 2024, we were honored to receive the "Prize for Potential" award for our dedication to unlocking the strengths of each person at NGI. This commitment to social sustainability led to a significant milestone: we were invited to Parliament in 2024 to meet with ministers and showcase our inclusive employment approach. By demonstrating how businesses can foster a workforce built on adaptability, we hope to inspire others to do the same. As we move forward, we remain steadfast in our commitment to sustainability, understanding that our actions today will shape the future of our industry.



NGI IN BRIEF

Hygienic & Sustainable Solutions

At NGI, we are committed to driving sustainability through hygienic design and innovative engineering. We go beyond supplying high-quality stainless-steel components by building strong, collaborative partnerships with our customers, focused on creating tangible value.

We recognize the importance of minimizing environmental impact, which is why our products are designed to reduce water and detergent usage, ensuring both efficiency and environmental responsibility in production environments. By prioritizing long-lasting, easy-to-clean solutions, we enable our customers to lower operational costs while enhancing food safety and sustainability.

With 15% of our profits dedicated to R&D, we continuously innovate to meet the growing demands of the market. Our commitment to sustainability includes:

- Extending product lifetimes through the use of high-quality materials.
- Reducing water and chemical consumption in cleaning processes.
- Maximizing recyclability, with 80% of our products being recyclable, and working to increase this figure further.

At NGI, we are committed to designing components for high food safety and sustainable design is the future. We are proud to develop solutions that help our customers meet their environmental and operational goals.

Partner with
companies in:

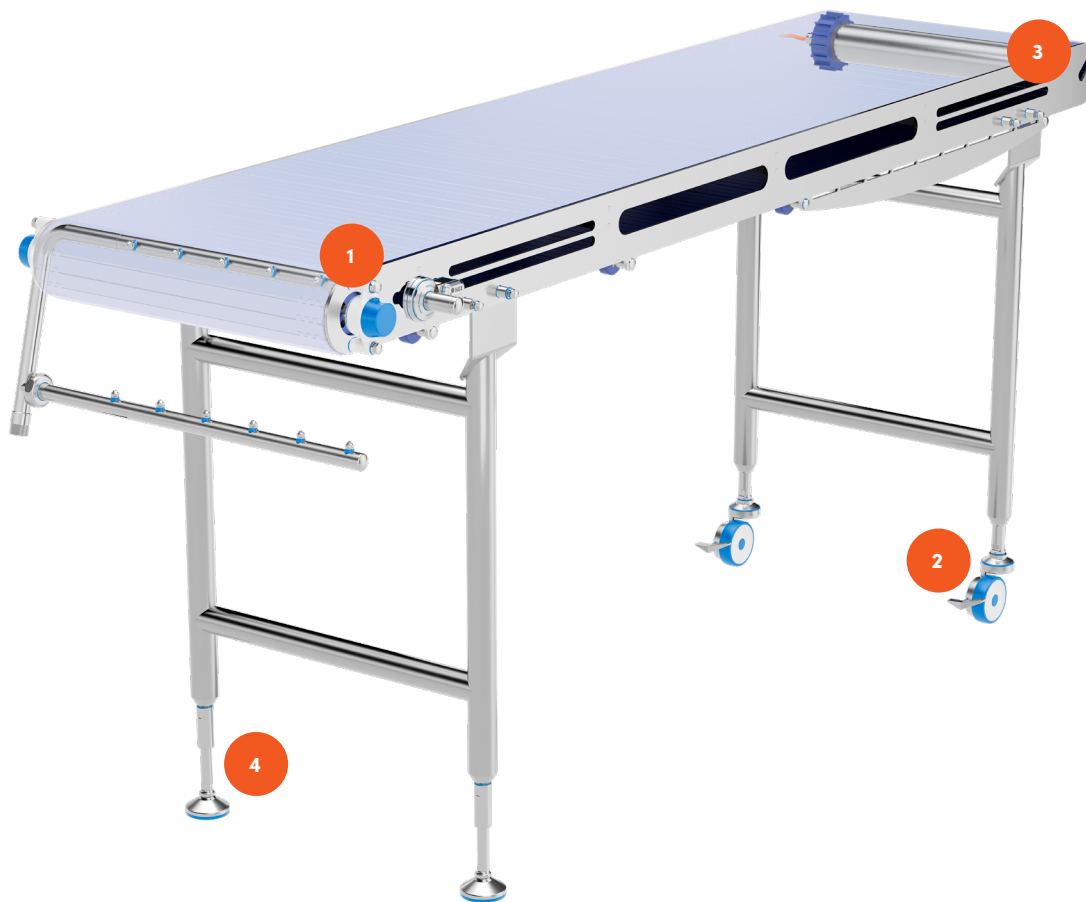


**Food & beverage
industries**



**Pharmaceutical
industries**

Our world of sustainable products and solutions



1. Bearing houses

- ✓ Fitted with ceramic bearings will extend the lifetime 4–8 times
- ✓ Reduces downtime and energy-loss
- ✓ The world's only USDA, EHEDG and 3A for high food safety
- ✓ Minimized use of water and cleaning detergents
- ✓ Lubrication-free eliminating grease in wastewater and increasing production safety



2. Castors

- ✓ Powerful easy-clean design minimizing the use of water and cleaning detergents
- ✓ Mechanics 100% integrated minimizing bacteria accumulation
- ✓ Minimized cross-contamination and maximized food safety



3. Synchronous drum motors

- ✓ Oil free eliminating the risk of oil leaks
- ✓ Lower energy consumption
- ✓ Higher motor efficiency and thus less power loss
- ✓ Enhanced food safety



4. Levelling feet

- ✓ Reduced cleaning time, water usage and electricity costs
- ✓ It takes 28% more resources to reach the same level of cleanliness on a fully-threaded machine foot
- ✓ Enhanced food safety with triple-certified options





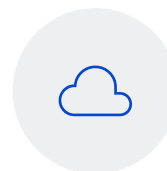
NGI environmental impact assessment

For the past five years, we have been collecting comprehensive data on energy use, greenhouse gas (GHG) emissions, volatile organic compounds (VOC) emissions, water use, and waste generation at our facilities. In 2022, we expanded the scope of our data collection to include a newly added facility in Germany.

This data, gathered through utility bills and direct measurements, helps us identify areas where we can further reduce our environmental footprint. Understanding this data is a crucial first step towards our environmental goals



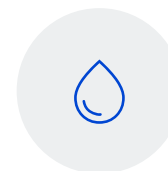
Energy use



GHG emissions



VOC emissions



Water use



Waste generation

Energy use

At NGI, the majority of our energy powers essential operations such as molding, extrusion, vulcanization, and metalworking. The remaining energy is used for general electricity needs in our buildings and for heating through a district heating system.

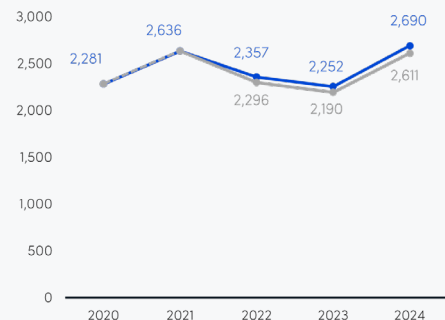
Since 2022, we have included the fossil fuel consumption of company vehicles in our energy reporting. To maintain year-on-year comparability, energy data excluding vehicle fuel use is displayed in grey. As shown in the graph, vehicle fuel represents a minor share of our total energy consumption.

Between 2023 and 2024, total energy use increased by 19%, primarily due to higher production volumes and the expansion of our German facility.

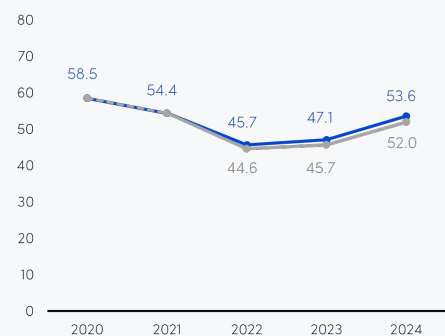
While this increase reflects business growth, we recognize the need to better manage energy demand as we scale. In the year ahead, we aim to strengthen our approach to energy efficiency and explore further opportunities to reduce our environmental impact.

Note: The 2023 energy use value has been updated. The grey trend line shows energy use excluding vehicle fuel.

Energy use
[MWh]



Energy use indexed to net revenues
[MWh/MCHF]





CASE STUDY

Optimizing energy efficiency with smarter heat controls

At Virkelyst 3B, NGI has taken a proactive step toward energy efficiency by upgrading the heat control system across all radiators.

By implementing advanced flow valves, the return temperature has been reduced from 45°C to 31°C. This optimization not only enhances heating efficiency but also leads to an estimated 5% reduction in total district heating consumption.

This initiative highlights NGI's commitment to sustainability and smarter energy use, demonstrating how targeted improvements in heating infrastructure can contribute to reduced energy waste and lower environmental impact.

Reduction in heating consumption

5%

Carbon savings

2 tCO₂e/year





GHG emissions

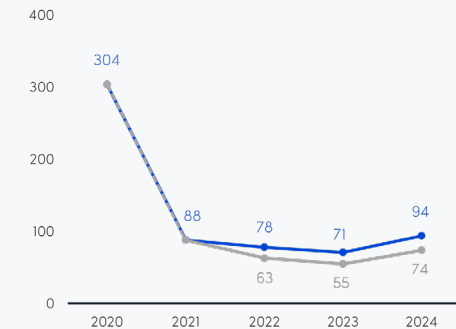
In line with the increase in energy consumption between 2023 and 2024, our greenhouse gas emissions rose from 71 to 94 tCO₂e. This increase was primarily driven by higher Scope 1 stationary emissions, followed by mobile emissions, as most of our electricity supply remains carbon-free.

Despite this year's increase, our overall carbon footprint has decreased significantly over the longer term. Since 2020, we have reduced our GHG emissions by 69%, from 304 to 94 tCO₂e. This substantial reduction is largely attributed to our transition to 100% renewable electricity at our Denmark facility, powered by Danish wind energy since March 2021.

We remain committed to continuing to decarbonize our operations in the years ahead to reach our Net zero target (Scope 1 and 2) by 2030.

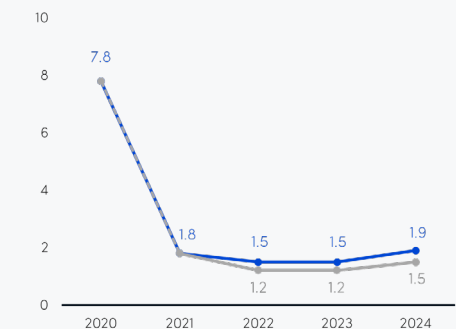
GHG emissions

[tCO₂e]



GHG emissions indexed to net revenues

[tCO₂e/MCHF]



Note: The grey trend line shows the GHG emissions excluding emissions from mobile combustion.



VOC emissions

In our production facilities, solvents are primarily used for cleaning and adhesive applications during the fabrication of our end products. All chemical operations within designated ATEX areas are equipped with approved extraction systems to ensure VOC emissions remain well within legal limits.

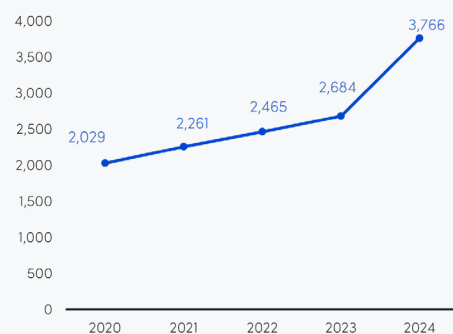
VOC emissions are calculated based on the VOC content of each solvent used, considering the solvent consumption at our facility in Denmark and, starting in 2023, our German facility. The VOC emissions from our German site are minimal and have had no significant impact on the overall trend.

Since 2020, we have observed a gradual increase in VOC emissions, largely aligned with higher solvent usage.

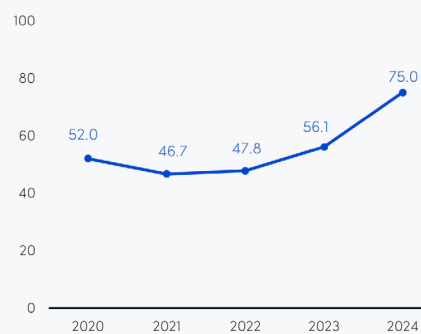
In 2024, emissions rose again due to both an increase in the total volume of solvents used and a shift in the solvent mix. Compared to 2023, a larger share of the solvents used had a higher VOC content, contributing to the rise in emissions. This shift was driven by production changes aimed at improving product quality and enhancing manufacturing efficiency.

While solvent use has increased in recent years, we remain committed to identifying reduction opportunities through improved process efficiency, the use of lower-VOC alternatives where possible, and close monitoring of our emissions. Maintaining employee safety and minimizing environmental impact remain key priorities.

VOC emissions
[kg VOC]



VOC emissions indexed to net revenues
[kg VOC/MCHF]





Water use

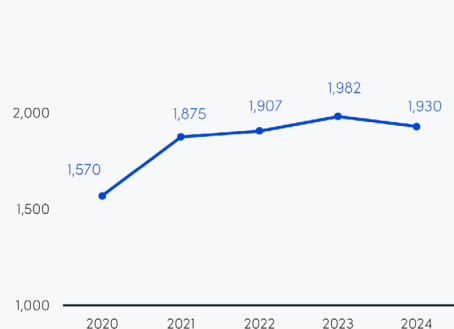
Despite our minimal operational water requirements, we have implemented a proactive strategy to manage water consumption. Over recent years, we have combined maintenance practices with strategic investments in our manufacturing facilities to ensure efficient water use.

Additionally, we prioritize using environmentally friendly alternatives to harsh chemicals to prevent water quality impacts. In cases where chemicals are necessary, we ensure proper treatment through certified partners.

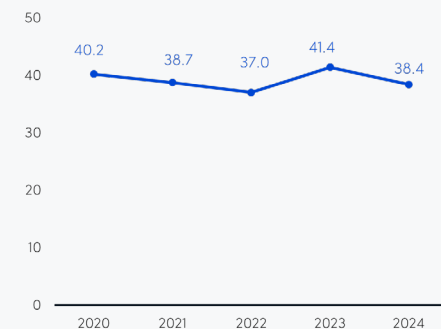
Water consumption has been rising since 2020, driven by increased production volumes, a growing workforce, and the introduction of new water-intensive processes. However, in 2024, we saw a slight decrease of 52 m³—our first decline since 2020. This reduction was driven by continuous optimization of NGI's use of water and the recycling processes for water utilization over the past 2 to 3 years, particularly at our site in Denmark.

Indexed to net revenues, water use increased in 2023, highlighting that water consumption is not always directly correlated with production output.

Water use
[m3]



Water use indexed to net revenues
[m3/MCHF]





CASE STUDY

Optimizing cleaning practices and enhancing employee environment

As part of our ongoing sustainability efforts, we improved the washing process for degreasing items in our stamping department.

The previous detergent had a high alkaline pH, which posed risks to both employee health and the environment.

After evaluating alternatives, we adopted DST-DEGREEZ/X8 from DST-Chemicals, a low-pH, less alkaline detergent that offers excellent cleaning performance with reduced environmental and health impact.

This change has improved workplace safety and reduced the ecological footprint of our production process without compromising cleaning efficiency.





Waste generation and disposal

We recognize the importance of effective waste management in promoting resource efficiency and contributing to the circular economy. Our waste management scope includes operational and office waste generated at our Denmark location and starting in 2022 the operational and office waste from our facility in Germany.

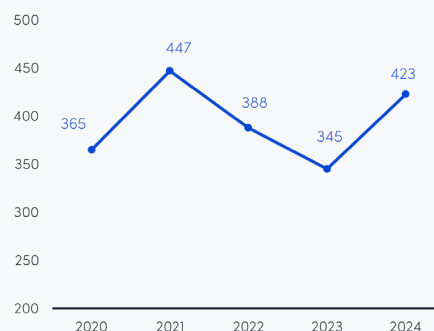
Our objective is to achieve and maintain a landfill proportion of 5% or below by 2025 while simultaneously reducing our overall waste generation.

We have made strong progress toward our waste management goals, reaching just 1% of waste sent to landfill, an achievement made possible through increased recycling. To further reduce landfill volumes, we redirected non-recyclable waste to incineration.

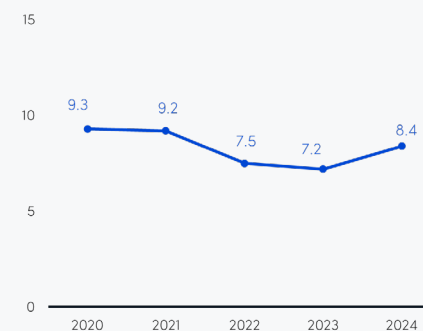
In 2024, however, overall waste generation rose at our Denmark sites, driven by a significant increase in FTEs and more precise waste sorting practices.

Although hazardous waste represents only 9% of our total, we continue to prioritize its safe disposal and remain committed to reducing it. Ongoing improvement and innovation will be essential to sustain and surpass our waste reduction targets.

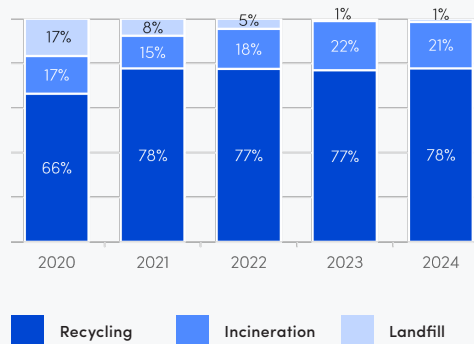
Waste generation
[t]



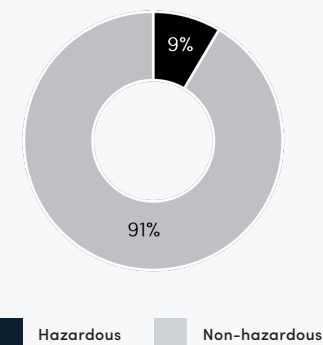
Waste generation indexed to net revenues
[t/MCHF]



Waste disposal
[%]



Share of hazardous & non-hazardous waste in 2024
[%]





ROSSI

Interview with Rossi management team

In this interview, the Rossi management team provide reflections, strategic visions, and organizational perspectives on sustainability.

Over the past year, what key sustainability challenges has your company faced, and how has your company tackled them?

Our main challenge has been reducing the consumption of the primary energy source used in our production processes: electricity. To address this, we have launched an energy transition plan towards the use of clean energy by installing photovoltaic systems on the roofs of our most energy-intensive plants, such as the Ganaceto (Modena) site, home to Rossi Italy. The installation and connection to the grid were completed at the end of 2024, and tangible benefits can be measured starting in 2025. Additionally, a further 400kW installation is planned for the expansion of the Ganaceto facility in 2025.

Can you highlight a specific initiative or project that exemplifies your company's dedication to sustainability?

Over the years, we have consistently invested in waste reduction and improving waste sorting, both for production materials and packaging.

"We believe sustainability is a shared goal to be pursued across the entire value chain."

This commitment translates into more responsible resource management and a tangible reduction of the environmental impact of our daily activities, along with raising employee awareness on these issues.

Collaboration is key to sustainability—how is your company working with suppliers, partners, and customers to drive meaningful change?

At Rossi, we believe sustainability is a shared goal to be pursued across the entire value chain. That's why we are increasingly strengthening collaboration with both upstream and downstream stakeholders, promoting joint sustainability-driven initiatives. In 2024, we launched targeted training for all our buyers, focused on supplier selection criteria from a sustainable procurement perspective.

We also joined digital platforms for ESG supplier qualification, with the aim of transparently sharing the results achieved in this area and actively involving our partners in the journey toward a more sustainable future.

If you could share one message with employees and stakeholders about our sustainability journey, what would it be?

Small but concrete steps toward a more sustainable world!





ROSSI IN BRIEF

Rossi, solutions for an evolving industry

We are a global and innovative manufacturer of durable, high-quality gearboxes and gearmotors, and reliably equip our customers for the most critical processes and applications.

Renowned for exceptional quality and robustness in heavy-duty sectors and challenging applications.

- 3 years warranty.
- Hundreds of thousands of gearmotors operating worldwide.

High fit for niche applications in future-oriented industries through a broad product portfolio.

- Thousands of applications moved by our gearmotors.

Strong and reliable relationships with OEMs, providing unique benefits through collaborative engineering and extensive expertise.

- 6,600 worldwide customers.
- 17 affiliated companies; we are present where you need us.

Exceptional capability for extensive customization to address the most intricate customer requirements. All of our products are customizable.

150,000+
gearmotors produced per year

7M+
gearmotors produced since 1953

OUR STEPS TOWARDS SUSTAINABILITY

Enabling the reuse of wooden packaging

We are committed to helping our customers manage the end-of-life phase of our products in an environmentally responsible manner. To support the proper disposal of gearboxes, gearmotors, and associated packaging, we have developed a set of practical tools:

- A **dedicated web page** providing clear guidelines and resources: [Responsible Disposal – Rossi](#).
- An **online form** to request information or assistance on disposal procedures.
- **Updated operating instruction manuals**, now including detailed instructions on the recycling and disposal of our product components and packaging materials.

These initiatives reflect our commitment to circularity and extended producer responsibility, helping ensure our products are handled safely and sustainably throughout their lifecycle.



Responsible disposal



[Home](#) / [Support and service](#) / [Responsible disposal](#)

Properly decommissioning and disposing of gear reducers is crucial for environmental protection and responsible waste management.

The power of recycling

Efficient recycling of gear reducers, separating components by composition, reduces environmental impact and promotes a circular economy by reusing metals such as steel and cast iron in new industrial products.

Give Packaging a second Life

Recycling packaging materials reduces environmental impact, supports resource efficiency and responsible waste management, promoting a circular economy.

How to correctly dispose of my product and packaging?

+ Gear reducer

+ Plastic caps and protections



+ Seal rings

+ Waste oil



+ Motor



+ Inverter



Packaging made of:

- wood



+ - paper and cardboard



- plastics



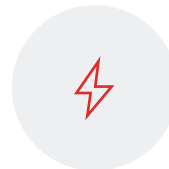


Rossi environmental impact assessment

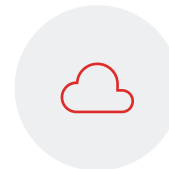
Since 2020, we have conducted environmental assessments to evaluate energy consumption, greenhouse gas (GHG) emissions, volatile organic compound (VOC) emissions, water use, and waste generation at our facilities. Our impact assessment covers 19 locations in 2024, 16 locations in 2023, 15 locations in 2022, and 13 locations in both 2021 and 2020. Data were collected through measurement and invoices.

Understanding our environmental footprint, allows us to identify where our activities have the most impact and take focused action to reduce it.

Enhancements in data quality and completeness have prompted updates to certain values reported in the 2023 environmental report. These changes are noted throughout.



Energy use



GHG emissions



VOC emissions



Water use



Waste generation



Energy use

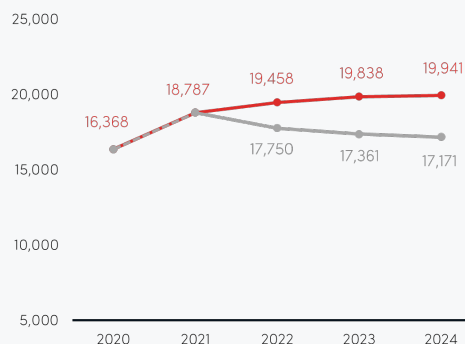
The majority of our energy consumption occurs at our production sites, where our processes and activities, particularly machine tools, are predominantly powered by electricity. Fossil fuels are primarily utilized for heating our offices and production areas. Our production sites accounted for 84% of our total energy consumption in 2024, with assembly sites and offices making up the remaining 16%.

Starting in 2022, we expanded our energy use accounting to include fossil fuels consumed by company vehicles. In 2024, our total energy consumption, represented by the red trend line, increased slightly by 0.5% compared to 2023. This modest rise comes despite the inclusion of three additional sites (a production site, an assembly site, and an office), making the increase relatively low in context.

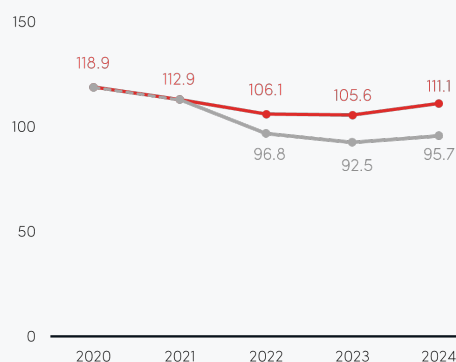
In contrast, the grey trend line, which excludes vehicle fuel use, shows a 1% decrease in energy consumption. This drop is primarily due to lower production volumes in 2024. The gap between the two trend lines reflects our improved data coverage and the increase in the number of company vehicles, which resulted in higher reported fossil fuel consumption for transport.

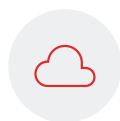
Note: The 2022 energy use value has been updated to include fossil fuels consumed by company vehicles. The grey trend line shows energy use excluding vehicle fuel.

Energy use
[MWh]



Energy use indexed to net revenues
[MWh/MCHF]





GHG emissions

The GHG emissions shown in the graph represent the total scope 1 and scope 2 market-based emissions.

For location-based scope 2 emissions, please refer to [page 63](#). The data in grey show the GHG emissions trend without mobile combustion emissions, which have only been included in the data from 2022.

Between 2023 and 2024, our total market-based GHG emissions (Scope 1 and 2) decreased by over 700 tCO₂e, representing a 9% reduction. This reduction is largely driven by two key factors:

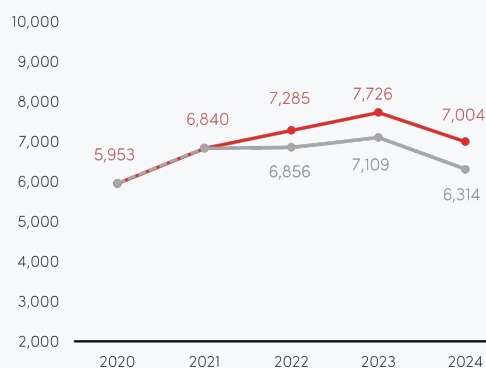
- A general decrease in electricity consumption across our operations, contributing to a reduction in both location-based and market-based Scope 2 emissions.
- A lower residual mix emission factor in 2024 than in 2023, which significantly impacted our market-based Scope 2 calculation.

Scope 1 emissions continued to increase slightly due to improved reporting and greater coverage of fossil fuel use from company vehicles. However, this increase was outweighed by the progress made in Scope 2 reductions.

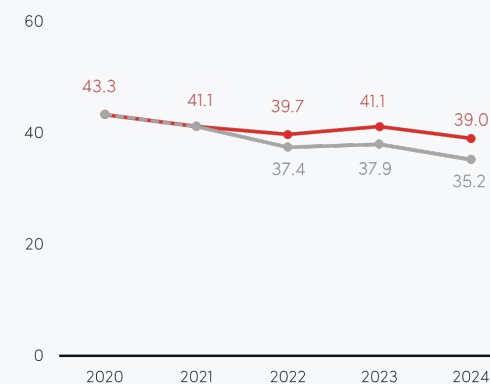
To further reduce our Scope 2 emissions, we have installed rooftop solar panels at one of our most energy-intensive site, scheduled to become operational in 2025.

More broadly, we are committed to accelerating our decarbonization efforts by switching to renewable energy sources, enhancing energy efficiency, and optimizing heating and cooling systems. These actions are key to ensuring the continued reduction of our carbon footprint.

GHG emissions
[tCO₂e]



GHG emissions indexed to net revenues
[tCO₂e / MCHF]



Note: The GHG emission values have been updated compared to the 2023 report, due to the use of residual mix emissions factors for calculating market-based scope 2. The grey trend line shows the GHG emissions excluding emissions from mobile combustion.

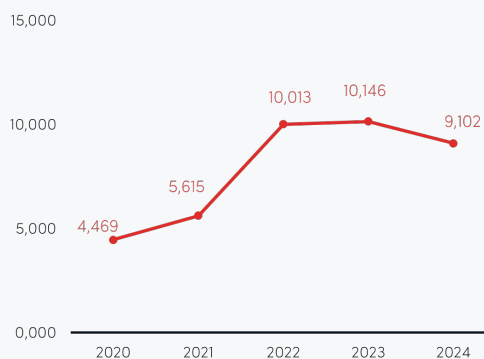


VOC emissions

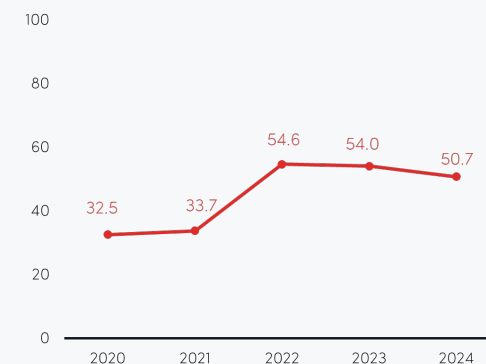
In our operational processes, solvents are used for cleaning the gearboxes and their components, and the paint spray system inside the spray booths. To minimize the impact on employee health and the environment, the use of solvents is conducted in fume hoods or under paint mist extraction systems. When necessary, appropriate PPE is provided as an additional safety measure. Solvent waste is collected in designated barrels and disposed of as hazardous waste.

VOC emissions increased from 2020 to 2024, due to higher solvent usage. This is driven by production growth and product mix-shift. However, we have seen a decrease in 2024 as we have automated the cleaning process of gearmotors, which has reduced the amount of solvents used.

VOC emissions
[kg VOC]



VOC emissions indexed to net revenues
[kg VOC/MCHF]





Water use

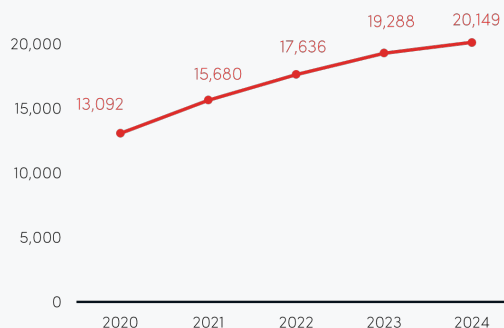
Most of our water consumption is dedicated to office and hygiene needs, as well as to evaporative coolers that keep production areas comfortable during summer. About 10% of our water usage is allocated to the production cycle. Our five largest sites accounted for over 81% of total water use in 2024.

Between 2020 and 2024, we observed a steady increase in water consumption. This trend is primarily driven by a growing workforce and greater reliance on evaporative cooling systems during increasingly hot summers. Since 2021, intensifying heatwaves have made cooling more critical at our production sites, resulting in higher water use through evaporative towers.

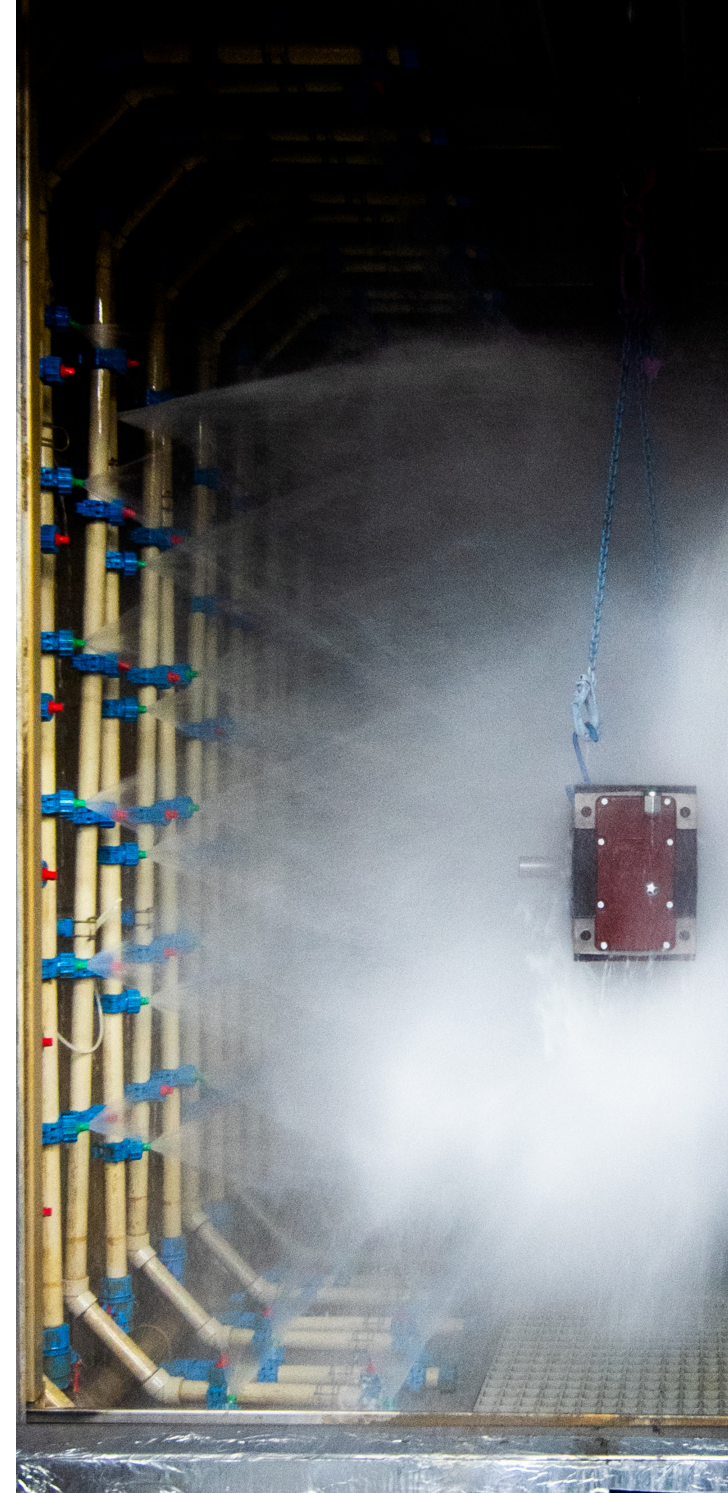
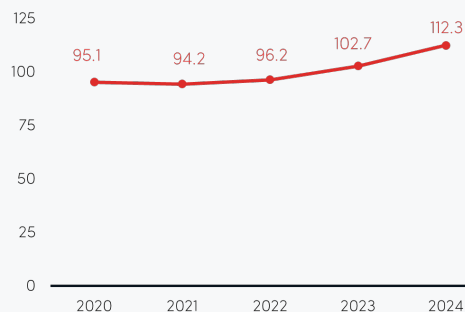
With the continuous increase in temperatures due to climate change, maintaining a comfortable working environment for our employees, while reducing our water consumption is challenging.

For older buildings using evaporative towers for cooling is currently the most appropriate solution. At our newest building, we installed fan coil systems to regulate temperatures, which will rely on electricity instead of water.

Water use
[m³]



Water use indexed to net revenues
[m³/MCHF]





Waste generation and disposal

Compared to 2023, we have enhanced the monitoring of both operational and office waste, leading to broader coverage and improved data quality.

Some minor gaps remain, mainly in office waste reporting and at smaller sites where waste volumes are either minimal or not separately tracked. However, these gaps have little impact on the overall figures, as office waste accounts for a small portion of total waste and all major production sites are well represented in the data.

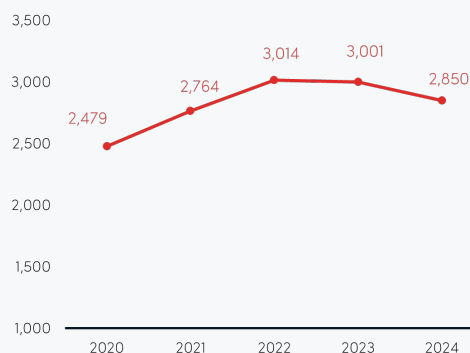
Our waste generation fell by 5% in 2024, as we have a decrease in production volume. From 2020 onwards, we have maintained a high recycling rate.

Hazardous waste comprises 26% of our total waste, with 11 out of 19 sites reporting having it.

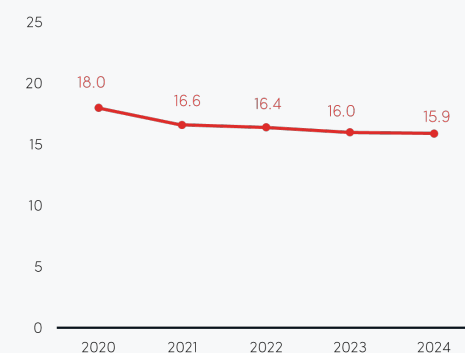
All sites monitor hazardous waste and all ensure its safe disposal. The majority of hazardous waste is treated through recycling, followed by landfill and incineration disposal.

We are actively exploring opportunities to minimize hazardous waste and have already begun implementing circular economy initiatives to minimize non-hazardous waste across our sites.

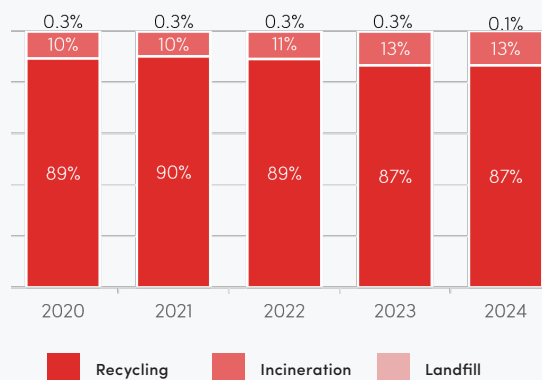
Waste generation
[t]



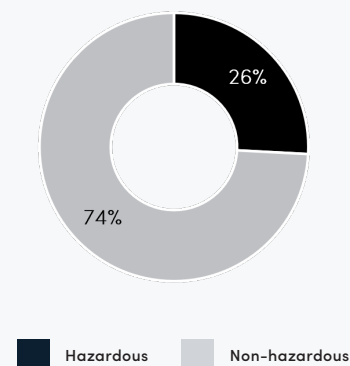
Waste generation indexed to net revenues
[t/MCHF]



Waste disposal
[%]



Share of hazardous & non-hazardous waste in 2024
[%]





CASE STUDY

Switching to reusable cleaning wipes with MEWA

Viladecans, Spain

In 2024, our Viladecans facility in Spain transitioned from single-use cleaning wipes to reusable alternatives provided by MEWA. Each wipe can be reused up to 50 times, offering environmental benefits:

- Reduced material consumption.
- Wipes made with 50% recycled content.
- A carbon footprint 3 to 6 times lower than single-use option.

In addition to the product benefits, MEWA's industrial laundering process ensures:

- Up to 50% of water is reused during cleaning.
- 99.8% of wastewater from the cleaning process is purified.

This initiative supports our commitment to circularity and reducing waste across operations.



BEFORE



AFTER





CASE STUDY

Enabling the reuse of wooden packaging

Modena, Italy

At our Modena site, we have introduced simple yet effective improvements to make our wooden crates reusable.

Previously, crates were sealed with nail guns, which made them difficult to open without damage. Now, we use screws, requiring only one-third the quantity, making the crates easier to dismantle and reuse without breakage.

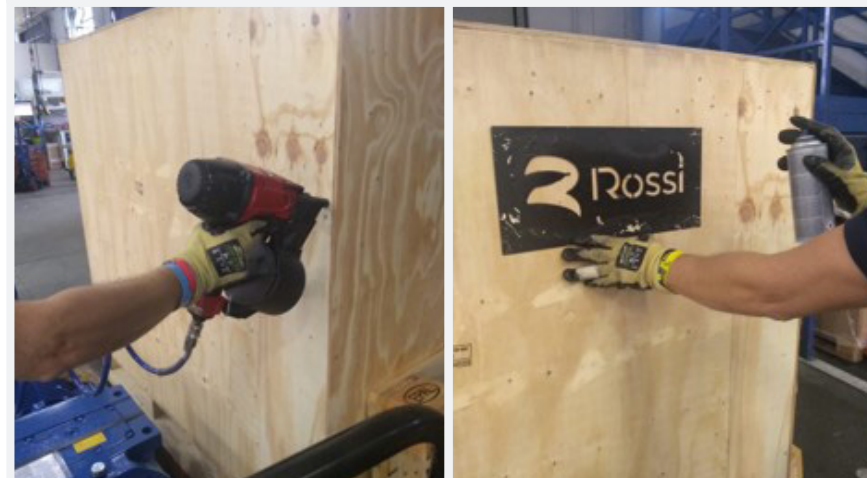
We have also replaced spray paint used to mark the crates with a laser etching system. This change:

- Reduces the risk of employee exposure to hazardous substances.
- Minimizes hazardous waste from used paint cans.

These small adjustments are making a meaningful difference in our packaging sustainability and workplace safety.



BEFORE



AFTER



TRAPO >>>

Automated Intralogistics

TRAPO

Interview with TRAPO Managing Directors

In an interview with Enrico Pes and Hubertus Rensing, TRAPO Managing Directors, we had the opportunity to gain insights into their personal reflections, and strategic vision on sustainability.



Enrico Pes and Hubertus Rensing
TRAPO Managing Directors

In what ways has TRAPO advanced its sustainability commitments, and what are the next major milestones?

Wherever possible, we are converting our vehicle fleet to e-mobility. At the same time, we have been using green electricity exclusively for many years and offer our employees the opportunity to charge not only their company cars but also their private vehicles at our company's own charging

stations. This combination enables us to actively reduce the environmental impact of road traffic. Looking ahead, a further step towards environmental protection could be the installation of a photovoltaic system on our production halls in combination with converting our heating to a heat pump. This would further reduce our use of fossil fuels for heating, supply energy for operations during working hours and feed surplus energy into the public grid, thus also providing green electricity to other energy users. Preliminary clarifications have already been performed.

How do you see sustainability shaping the future of our industry, and how is TRAPO positioning itself to lead this transformation?

Sustainability is already a very important topic today and will become even more important in the future. For our customers, Sustainability is a key issue and an essential part of most codes of conduct. More and more customers require a certain level of sustainability standard as a prerequisite for awarding orders. At TRAPO, being part of the Moovimenta Group, sustainability is core to our business activities.

When processing orders it is about designing machines that are as energy efficient as possible, selecting non-critical production materials, using sustainable packaging materials, or avoiding waste in general.

"We must speed up our shift to low-carbon operations and sustainable products. Each of us can help by working smarter and reducing our footprint, together, we can set the standard for a responsible future."

What role does leadership play in embedding sustainability into everyday business decisions at TRAPO?

Leaders have to lead by example. We cannot demand something from our employees that we do not live and implement ourselves. Therefore,

sustainable behavior must always be modeled in the actions and decisions of the leaders.

If you could share one message with employees and stakeholders about our sustainability journey, what would it be?

The topic of sustainability must be central to our thinking and actions. Otherwise, we will continue to harm the world for future generations. The increasing number of extreme weather events we witness today show the escalating consequences of climate change. If we continue as we do today, large areas of the Earth may become uninhabitable by the end of this century, with temperatures exceeding levels that humans can survive. This will lead to consequent waves of refugees, causing social tensions in addition to environmental issues. We still have a chance to counteract this, but time is running out. We must speed up our shift to low-carbon operations and sustainable products. Each of us can help by working smarter and reducing our footprint, together, we can set the standard for a responsible future.



TRAPO IN BRIEF

TRAPO Solutions: Based on 68 Years of Experience

At TRAPO, we have been pioneering automated intralogistics systems since 1957. Today, we are revolutionizing industry standards with our cutting-edge products and innovative automation technology. As a reliable system integrator with a comprehensive product portfolio, TRAPO offers solutions for automated intralogistics worldwide, featuring tailored robotics, conveyor technology, advanced grippers, (de-) palletizing systems, autonomous vehicles, and safety tools.

All these elements are meticulously combined to create intelligent, integrated system solutions that enhance operational efficiency and ensure seamless workflow. By harmonizing advanced technology with innovative design, we deliver solutions that not only meet but exceed industry standards, providing a comprehensive approach to optimizing your production processes.

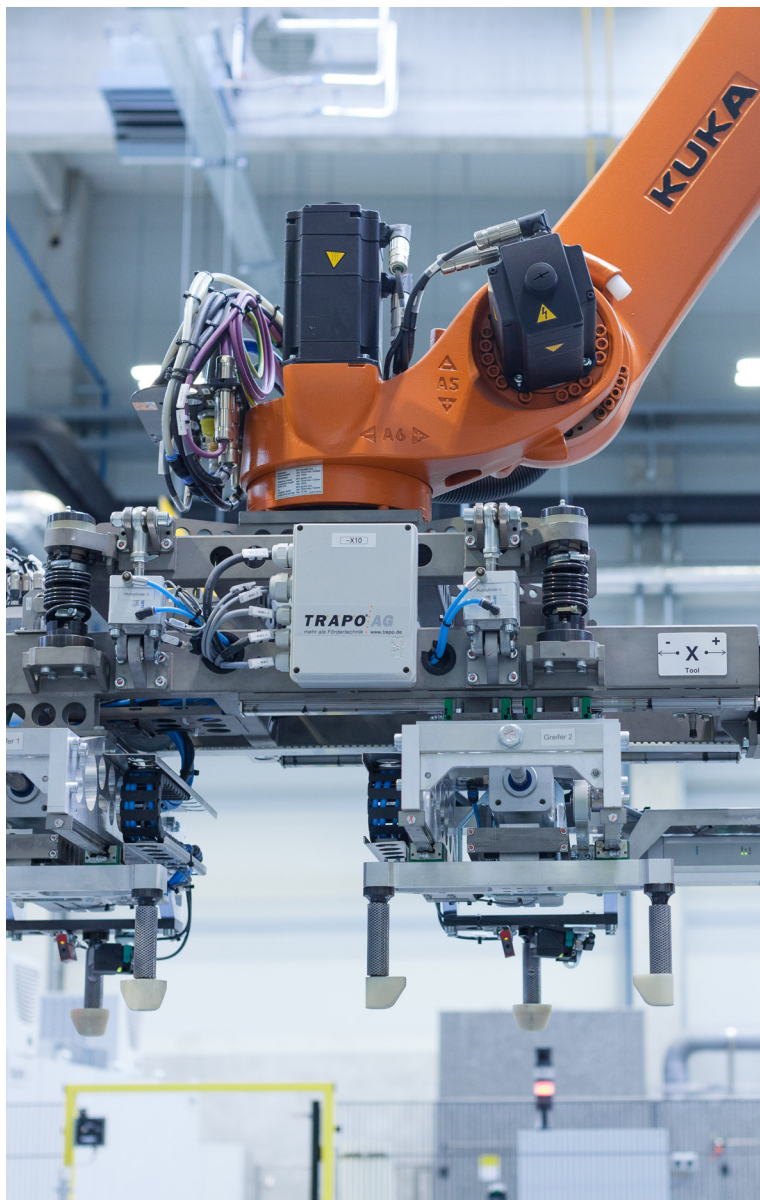
Focusing on the Big picture

The most crucial aspect of any working environment is the safety of the people, as well as the protection of products and goods. TRAPO products are engineered with safety as a top priority, ensuring that your team operates in a secure and healthy environment.

We think one step ahead – in every aspect

At TRAPO, our engineers have the ambition to scrutinize, improve, and further develop products and solutions. Our research and development team maintains constant contact with leading universities and stays abreast of the latest scientific developments.

This commitment extends to our approach with our customers' individual projects. Taking a comprehensive view is always worthwhile and reveals numerous opportunities to enhance the safety, efficiency, and sustainability of their intralogistics. That's why we not only sell products but also deliver solutions to ensure efficient intralogistics. That's why we not only sell products but also deliver solutions to ensure efficient intralogistics.



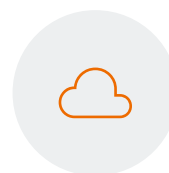
TRAPO environmental impact assessment

At TRAPO, we collect and analyze environmental data on our energy use, greenhouse gas (GHG) emissions, volatile organic compounds (VOC) emissions, water use, and waste generation. Since 2021 our assessment has included an additional facility in Italy, enhancing our ability to monitor and manage our environmental impact comprehensively.

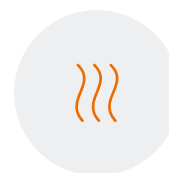
By gaining insights into our environmental footprint, we can pinpoint areas where our operations influence the environment. This understanding empowers us to develop targeted strategies and initiatives aimed at reducing our environmental footprint and promoting sustainability practices.



Energy use



GHG emissions



VOC emissions



Water use



Waste generation



Energy use

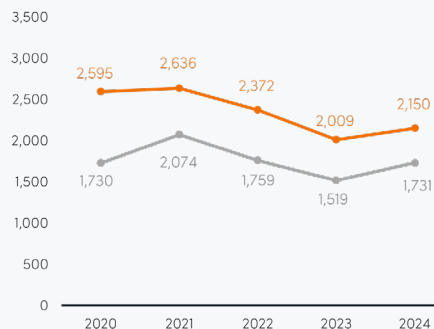
At all TRAPO locations, energy is used mainly for heating, lighting, and offices. Unlike process-intensive industries, our production processes are not highly energy-demanding, which explains the limited direct connection between energy consumption and production volumes.

We improved the accuracy of our reporting by correcting and updating energy data from company vehicles. To reflect this, we continue to display both the total energy use (orange line) and the consumption excluding vehicle fuel (grey line). Over time, the gap between the two curves has narrowed, reflecting our ongoing transition toward an electrified vehicle fleet.

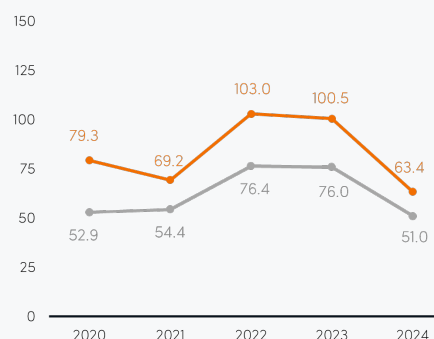
In 2024, total energy consumption rose by 6% compared to the previous year, mainly due to longer heating requirements linked to increased employee presence on-site. However, energy use relative to net revenues dropped by 37%, from 100.5 to 63.1 MWh/MCHF, as revenue growth significantly outpaced the rise in energy demand.

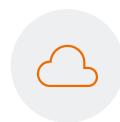
Note: Energy use values have been updated from the 2023 report. The grey trend line shows energy use excluding vehicle fuel.

Energy use
[MWh]



Energy use indexed to net revenues
[MWh/MCHF]





GHG emissions

At TRAPO, the exclusive use of renewable electricity eliminates scope 2 emissions, meaning our greenhouse gas (GHG) emissions come entirely from fossil fuel combustion for heating and company vehicles.

In 2024, heating accounted for roughly 60% of total emissions, with the remaining 40% coming from company vehicles.

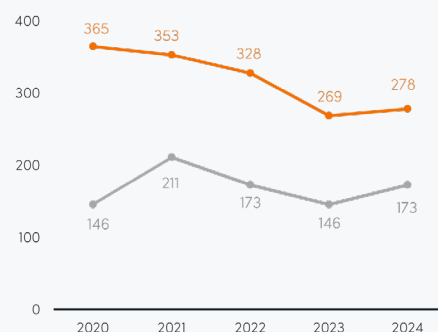
In 2024, total GHG emissions increased slightly by 2.6% compared to the previous year, mainly due to greater heating requirements linked to increased employee presence and

extended building operating hours. Emissions nevertheless remained well below 2020 levels. The updated tracking of company vehicle emissions is shown in grey, and the narrowing gap between the two lines reflects our ongoing transition to an electrified fleet.

When viewed relative to net revenues, GHG intensity decreased markedly, from 13.5 to 8.1 tCO₂e/MCHF, demonstrating that revenue growth significantly outpaced the modest increase in absolute emissions.

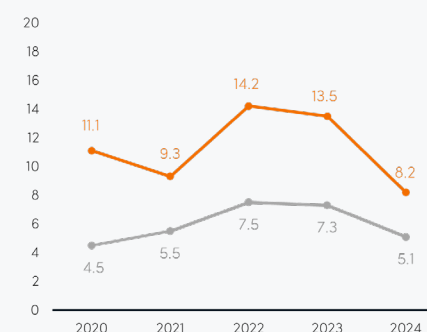
GHG emissions

[tCO₂e]



GHG emissions indexed to net revenues

[tCO₂e/MCHF]



Note: GHG emissions values have been updated from the 2023 report. The grey trend line shows the GHG emissions excluding emissions from mobile combustion.

CASE STUDY



Promoting electric vehicle adoption

In 2024, TRAPO continued its shift toward sustainable transportation by expanding its electric vehicle (EV) fleet, adding three new EVs and bringing the total to 11. This move reflects both the company's environmental commitment and growing employee support for low-emission mobility solutions.

Highlights of 2024 Progress:

Employee Engagement and Adoption:

A notable increase in employee interest—especially among high-mileage users such as the sales and service maintenance teams—has further driven the EV transition. This shift is supported by targeted internal campaigns that promote the environmental and practical benefits of electric vehicles.

Charging with Clean Energy:

The majority of TRAPO's EV charging occurs on-site, using 100% renewable electricity. This approach ensures that the carbon footprint of EV use is significantly lower than when using the standard country electricity grid.

Saving GHG emissions:

According to Transport & Environment, EVs emit 63% less GHG over their full lifecycle compared to diesel cars—rising to 83% when powered by renewable energy. In Germany specifically, EVs cut emissions by 73.3% using the current grid mix, and by up to 96.7% when run on renewables.

In 2024, TRAPO's EV fleet avoided more than **88 tonnes of CO₂e emissions compared to an equivalent diesel fleet.**

Carbon savings

88tCO₂e/year

13
CLIMATE
ACTION





VOC emissions

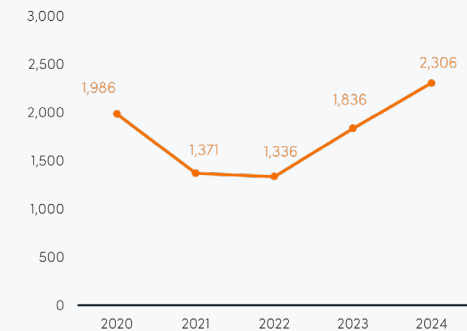
From 2023 to 2024, VOC emissions increased by 470 kg, primarily driven by higher production volumes, which led to greater solvent consumption. However, indexed VOC emissions decreased between 2023 and 2024, suggesting that solvent use per unit of output is improving.

The paint shop is the main contributor to solvent use across our facilities and remains a key focus area for emission reduction.

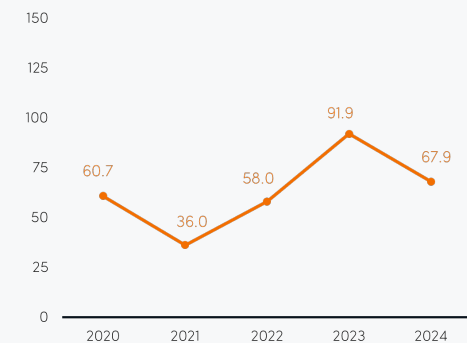
Volatile Organic Compounds (VOC) pose risks to both employee health, particularly in confined workspaces, and the environment, as they contribute to air pollution. To address these challenges, we actively monitor VOC levels and implement control measures throughout our operations. Paint-mist separators are used to capture overspray effectively, and regular maintenance, including timely filter replacement, ensures safe handling, proper disposal, and continued compliance with safety and environmental standards.

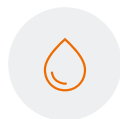
Note: The VOC emission values have been updated to reflect a more accurate calculation methodology compared to the 2023 report.

VOC emissions [kg VOC]



VOC emissions indexed to net revenues [kg VOC/MCHF]





Water use

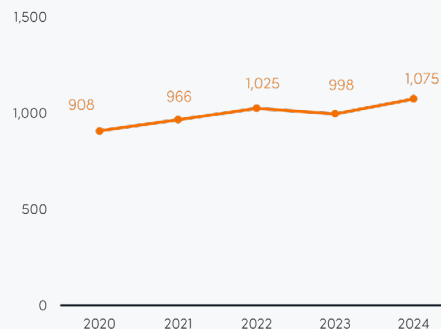
This year, we expanded our water consumption reporting to include both our German and Italian locations, providing a more complete picture of our water use. The majority of water is used for sanitation and cleaning, and as such, it is not directly linked to production volume. Since our operations do not involve harsh chemicals, pre-treatment of wastewater is not required—allowing it to be discharged directly into the municipal sewage system.

Compared to 2023, overall water consumption increased by approximately 8%. On a per-employee basis, usage now stands at around 21 liters per workday, representing a 1L increase from the previous year.

Note: Water consumption values have been updated from the 2023 report due to the inclusion of the Italian location data since 2021.

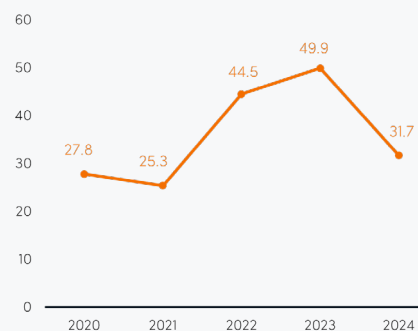
Water use

[m³]



Water use indexed to net revenues

[m³/MCHF]





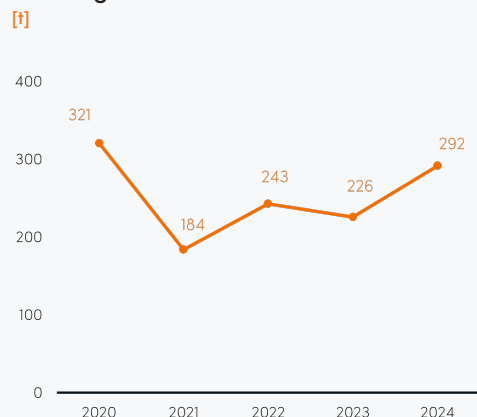
Waste generation and disposal

Office and operational waste streams are systematically collected and managed across all TRAPO sites. Operational waste primarily consists of steel chips, various packaging materials, and wood—particularly from pallets used in our processes. This structured approach enables proper handling and, where possible, the recycling or reuse of materials to reduce environmental impact.

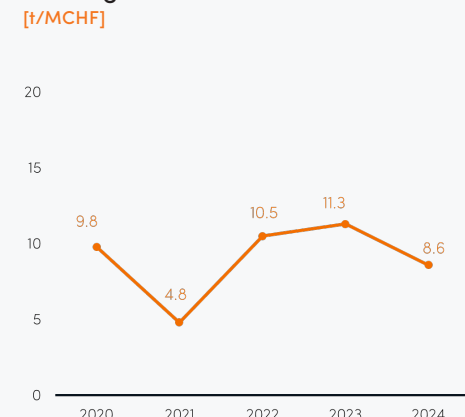
Between 2020 and 2024, our total waste generation fluctuated, but we achieved an overall reduction of 9%. In 2024, however, waste volumes increased by 29% compared to the previous year, primarily driven by higher production levels at our main site in Germany. While office waste was included in our previous totals, we began reporting it separately in 2023. In 2024, office waste accounted for 21 tonnes, approximately 7% of our total waste.

Our waste stream remains largely non-hazardous, comprising over 94% of the total in 2024. Hazardous waste has steadily declined since 2021, reaching a five-year low of 16 tonnes. We continue to perform strongly in waste treatment: in 2024, 61% of all waste was recycled, while the remaining 39% was sent to incineration.

Waste generation

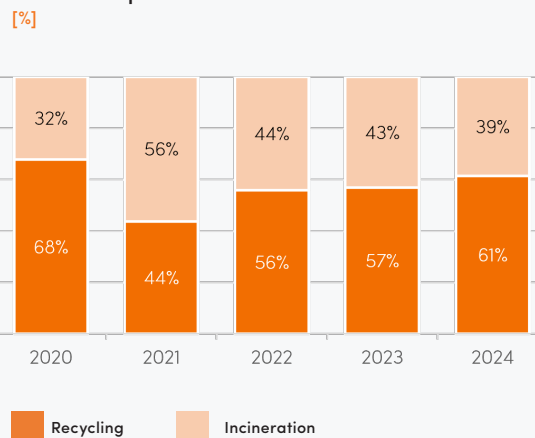


Waste generation indexed to net revenues

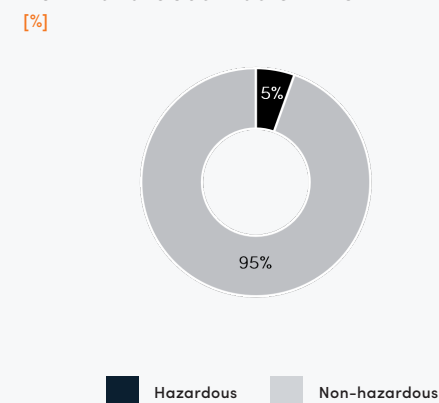


Note: The waste generation values have been updated compared to the 2023 report.

Waste disposal



Share of hazardous & non-hazardous waste in 2024





Data & index

		Moovimenta					Habasit					NGI					Rossi					TRAPO				
Units		2020	2021	2022	2023	2024	2020	2021	2022	2023	2024	2020	2021	2022	2023	2024	2020	2021	2022	2023	2024	2020	2021	2022	2023	2024
Energy																										
Energy use	MWh	119,469	135,025	140,951	131,345	132,301	98,225	110,965	116,724	107,195	107,455	2,281	2,636	2,357	2,252	2,690	16,368	18,787	19,458	19,838	19,941	2,595	2,636	2,372	2,009	2,150
Energy use indexed by net revenues	MWh/MCHF	170.6	164.9	163.9	164.8	166.4	200.0	196.1	194.0	198.1	202.1	58.5	54.4	45.7	47.1	53.6	118.9	112.9	106.1	105.6	111.1	79.3	69.2	103.0	100.5	63.4
Renewable energy consumption	MWh	13,670	19,665	40,235	37,350	32,747	12,735	18,777	37,772	35,093	30,214	0	0	1,585	1,485	1,683	0	0	20	7	9	935	887	848	744	817
GHG emissions																										
Scope 1 (Direct) – Sub-total	tCO ₂ e	12,867	14,154	14,599	14,759	15,155	11,211	12,368	12,729	12,711	12,960	-	-	31	25	45	1,291	1,444	1,503	1,747	1,862	365	343	328	269	278
Stationary combustion	tCO ₂ e	12,649	14,012	12,719	11,948	11,959	11,211	12,368	11,449	10,656	10,578	0	0	15	9	25	1291	1444	1074	1130	1172	146	201	173	146	173
Mobile combustion	tCo ₂ e	-	-	1,880	2,811	3,197	-	-	1,281	2,055	2,382	-	-	15	16	20	-	-	429	616	689	218	142	155	124	106
Scope 2 (Indirect)																										
Location-based	tCO ₂ e	15,077	17,700	19,212	15,976	16,021	10,893	12,672	13,633	11,281	11,411	373	523	363	274	308	3,478	4,114	4,870	4,149	4,001	333	391	345	271	301
Market-based	tCO ₂ e	16,513	13,263	12,046	11,159	10,262	11,546	7,768	6,217	5,134	5,070	304	88	47	46	50	4,662	5,396	5,782	5,979	5,142	0	11	0	0	0
Carbon footprint (Scope 1&2 market-based)	tCO ₂ e	29,379	27,417	26,645	25,918	25,417	22,758	20,136	18,947	17,844	18,030	304	88	78	71	94	5,953	6,840	7,285	7,726	7,004	365	353	328	269	278
Carbon footprint indexed by net revenues	tCO ₂ e/MCHF	41.9	33.5	31.0	32.5	32.0	46.3	35.6	31.5	33.0	33.9	7.8	1.8	1.5	1.5	1.9	43.3	41.1	39.7	41.1	39.0	11.1	9.3	14.2	13.5	8.2
VOC emissions																										
VOC emissions	kgVOC	132,668	163,937	178,453	133,360	144,849	124,185	154,690	164,640	118,695	129,675	2,029	2,261	2,465	2,684	3,766	4,469	5,615	10,013	10,146	9,102	1,986	1,371	1,336	1,836	2,306
VOC emissions indexed by net revenues	kgVOC/MCHF	189.4	200.2	207.6	167.4	182.1	252.9	273.4	273.6	219.3	243.9	52.0	46.7	47.8	56.1	75.0	32.5	33.7	54.6	54.0	50.7	60.7	36.0	58.0	91.9	67.9
Water																										
Water use	m ³	100,866	101,772	100,363	99,069	99,330	85,296	83,251	79,700	76,625	75,986	1,570	1,875	1,907	1,982	1,930	13,092	15,680	17,636	19,288	20,149	908	966	1,025	998	1,075
Water use indexed by net revenues	m ³ /MCHF	144.0	124.3	116.7	124.3	124.9	173.7	147.1	132.4	141.6	142.9	40.2	38.7	37.0	41.4	38.4	95.1	94.2	96.2	102.7	112.3	27.8	25.3	44.5	49.9	31.7
Waste																										
Hazardous Waste	t	-	-	-	1,144	1,043	-	-	-	256	254	-	-	-	27	36	-	-	-	843	736	25	33	29	18	16
Non-hazardous Waste	t	-	-	-	10,081	10,548	-	-	-	7,395	7,769	-	-	-	318	387	-	-	-	2,158	2,114	296	151	214	209	276
Total Waste	t	9,325	10,573	12,428	11,225	11,592	6,161	7,178	8,782	7,651	8,023	365	447	388	345	423	2,479	2,764	3,014	3,001	2,850	321	184	243	226	292
Total Waste indexed by net revenue	t/MCHF	13.3	12.9	14.5	14.1	14.6	12.5	12.7	14.6	14.1	15.1	9.3	9.2	7.5	7.2	8.4	18.0	16.6	16.4	16.0	15.9	9.8	4.8	10.5	11.3	8.6

Note: Renewable energy consumption includes on-site solar generation, 100% renewable electricity purchased and ethanol fuel.



Data scope

In scope

Energy consumption, greenhouse gas (GHG) emissions, volatile organic compounds (VOC) emissions, water use, and waste generation.

Out of scope

- Sites with fewer than five full-time equivalent employees (FTEs).
- Energy use and GHG emissions (mobile combustion) from company vehicles in the 2020 and 2021 data.

Glossary

ACs	Affiliated Companies
CAPEX	Capital Expenditures
CBAM	Carbon Border Adjustment Mechanism
CO₂e	Carbon dioxide equivalent
CSR	Corporate Sustainability Reporting Directive
CSDDD	Corporate Sustainability Due Diligence Directive
DMA	Double Materiality Assessment
EnAW	Energie-Agentur der Wirtschaft (Energy Agency of the Swiss Private Sector)
ESG	Environmental, Social and Governance
ESRS	European Sustainability Reporting Standards
EU	European Union
EU Taxonomy	EU Taxonomy for Sustainable Activities
EUDR	EU Deforestation Regulation
FTE	Full-time equivalent
GHG	Greenhouse Gas
HSE	Health, Safety and Environment
OEM	Original Equipment Manufacturer
PPE	Personal Protective Equipment
R&D	Research and Development
SBTi	Science Based Targets initiative
SDGs	Sustainable Development Goals
UN	United Nations
UNGC	United Nations Global Compact
VOC	Volatile Organic Compounds

Units

kg	Kilogram
kgVOC	Kilogram Volatile Organic Compounds
kWh	Kilowatt hour
L	Liter
m³	Cubic meter
MCHF	Million Swiss franc
MWh	Megawatt hour
t	Metric ton
tCO₂e	Metric ton carbon dioxide equivalent

