TRAPO

Automated Intralogistics

A DIVISION OF

MOOVIMENTA

ENVIRONMENTAL REPORT 2022

Table of content

This report

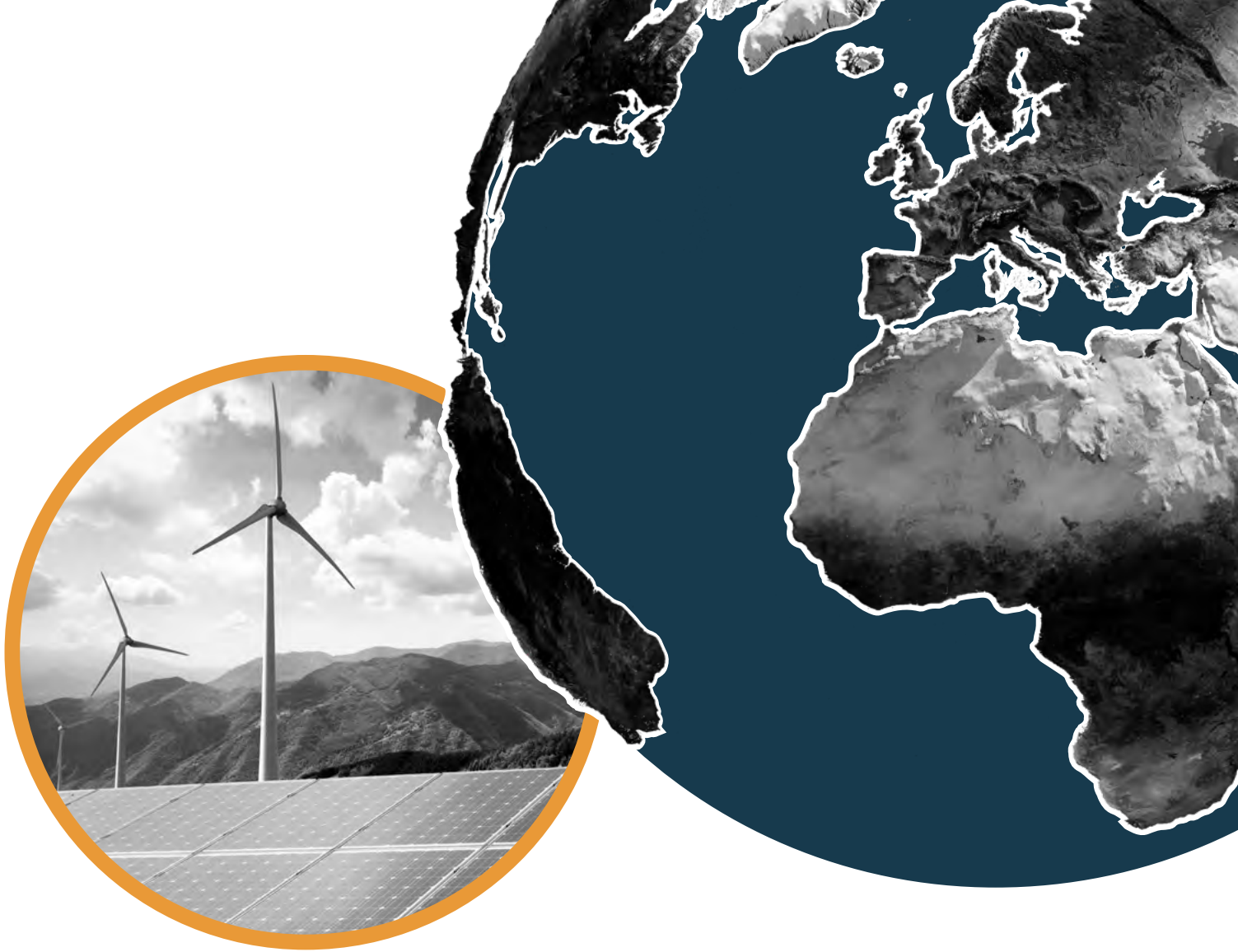
This report highlights our environmental efforts and related impacts in 2020, 2021, and 2022. This is the first environmental report published by the group.

The report includes all Moovimenta Divisions: Habasit, Rossi, NGI, and TRAPO, which all operate under their own brand.

This report addresses relevant and significant environmental aspects that are considered important 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.

We pledge to be transparent and open in our communication about our performance, both when it is improving and when it is not.

We strive to make our sustainability report readable and accessible. We are continuously working to improve data accuracy. Feedback and comments are welcomed so we can get better.



Message from our group CEO

Andrea Volpi

Group CEO

Welcome

In our environmental report, we have tried to avoid as much as possible the 'like for like' delivery of only internal resource usage. As prescribed by the EU CSRD, we state key metrics that are becoming commonplace within environmental reports, but in addition, we give insight in the background of our commitment and how ESG is deeply rooted in our Legacy, Corporate Culture, and Strategic Direction.

Our Companies have always given priority to ESG principles and best practices, always matching, and often exceeding regulatory prescriptions. In our earliest years, the focus was upon the Health and Safety of factory workers. As our product range developed, we expanded our focus to include the energy efficiency of our customers processes. We still retained a focus upon Health and Safety, adding hygienic solutions and consideration, particularly for customers in food industry segments. For many years we have promoted our high-quality products to reduce energy usage in customer plants, to reduce water used in cleaning operations, and to promote hygienic transportation of manufactured products. In the last decade is when we have turned more and more attention to other aspects of environmental sustainability.

We are convinced that the journey to a higher sustainability will be a long one and will require broad consensus, collaboration, focus, and most of all, persistence. Moovimenta AG is the strongest evidence of our commitment to ESG, by putting it at the core of our strategic framework:

"Many see industrial growth as inherently at odds with a healthy planet and people. We see a new industrial reality where these exist in harmony, empowering future generations rather than limiting them. A reality in which smart components and sub-systems enable us to manufacture more goods using less resources".

At Moovimenta we focus on innovation to improve the sustainability of our customers' processes and end products as well as the materials, energy, and resources used in our internal production facilities.

Our goal is to find a balance between the natural resources we consume, and the natural resources our customers then consume whilst using our components. Our aim is to minimize the overall environmental impact throughout the whole extended supply chain. For example: we might use more energy internally to produce a product if we can then be confident that it reduces energy consumption over its lifetime when installed at the customers' premises.

We also believe that high-quality components are inherently more environmentally sustainable because they have a longer lifespan. The reliability of our products in customers' processes helps to prevent waste in their processes, such as downtime and raw materials. We give a handful of case studies where our organization has improved the environmental sustainability of its customers' processes, and so the broader supply chain.

We give a handful of case studies where our organization has improved the environmental sustainability of its customers' processes, and so the broader supply chain.

There are challenges.

Within the industries where we compete, all players are using plastic and metal materials in highly energy-intensive processes. Our competitors and ourselves are consumers of the world's scarce resources and have grown over decades without adequate regard for recycling or re-use. Measuring the environmental impact of our activity is complex because – depending on the application – one of the greatest impacts may come from the use phase of our products: in other words, what happens to the products after they leave our factory gates. This makes for a complex picture requiring deep intelligence and not surface-level statistics. It is why we have a policy of measuring the environmental footprint of our products through all the phases of their lifetime: (a) Sourcing (b) Manufacturing (c) Transportation, (d) Use Phase, and (e) End-of-Life.

We are responding to these challenges.

Several years ago, we recognized that Sustainability, and especially Environmental Sustainability, was the defining issue of our times. Therefore, we re-drew our entire suite of strategic documents to make this issue central to all we do. Sustainability is at the heart of our corporate strategies. Our Mission became to help make our customers' processes more sustainable, smarter, and safer.

Solar plant in Brislach (Switzerland)

One group, four divisions

Supplier of conveyor and power transmission belting and systems, providing tailor-made, innovative solutions and services that keep industries in motion.

Pioneer in Hygienic stainless-steel components, such as levelling feet, castors, bearing houses, drum motors and conveyor frames.

Specialist in gear reducers, gearmotors and electric motors used in some of the most demanding applications in the world.

Expert in the automation of intralogistics projects such as picking, packing, (de) palletizing, packaging, conveying, warehouse logistics, sorting and distribution technology. Recognized as "Top 100 Innovator" of the German SME.

We are Moovimenta

4,900+
employees

36,000+
active clients

4
divisions

Direct presence
in 90+
locations

Our vision

We see a new industrial reality in harmony with people and our planet, empowering future generations. A reality in which smart components and sub-systems enable us to manufacture more goods using less resources.

Our mission

Accelerate the transition to a more sustainable, smarter and safer industrial reality.

values

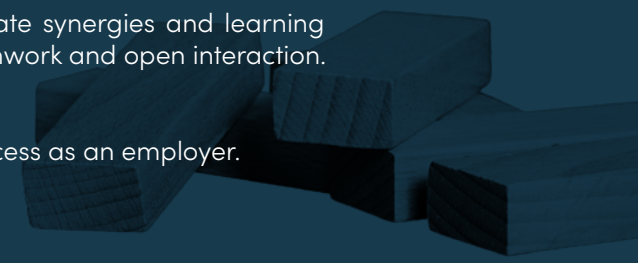
Entrepreneurship
is our passion – we foster a spirit of initiative, ownership, and commitment at all levels.

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.

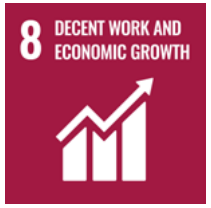


Our commitments to the UN SDGs & UNGC

At Moovimenta, we recognize the urgent need to address the environmental, social, and economic challenges facing our world today, and we believe that businesses have an important role to play in driving positive change.

Our sustainability strategy is guided by our commitment to the United Nations Sustainable Development Goals (SDGs) and the United Nations Global Compact (UNGC) principles on human rights, labor, environment, and anti-corruption.

We believe in economic growth that is sustainable, inclusive, and provides decent work opportunities for all without harming people or draining the planet.



We believe in economic growth that is sustainable, inclusive, and provides decent work opportunities for all without harming people or draining the planet

We commit to challenging our operations and supply chain to focus our innovation activities in the field of sustainable solutions

We recognize the importance of responsible consumption and production in reducing our environmental footprint, and we are committed to promoting sustainable practices in our operations and supply chain.

We are committed to achieving Carbon Net Zero by 2030 and promoting climate-resilient practices in our operations and supply chain.

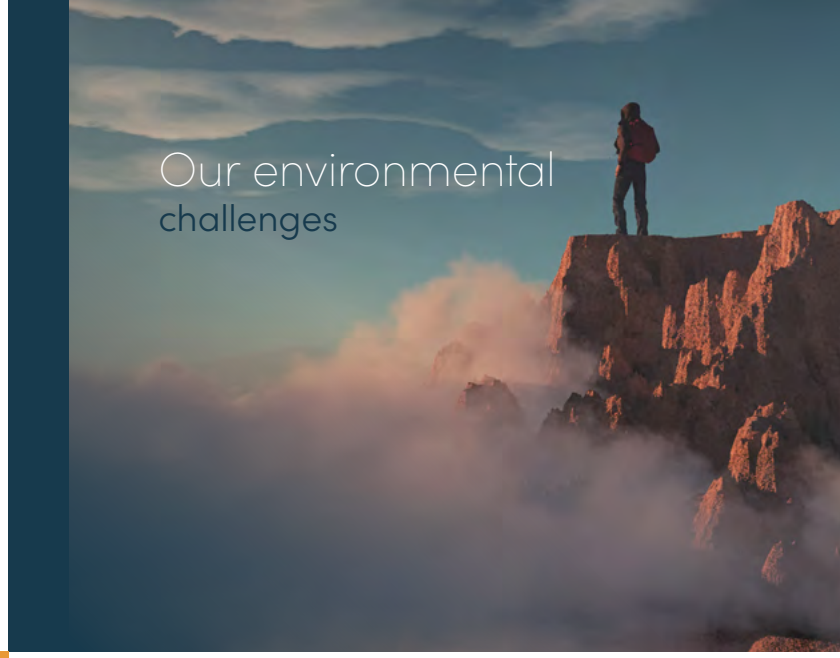
We are committed to working with our customers, suppliers, and other stakeholders to promote sustainable development.

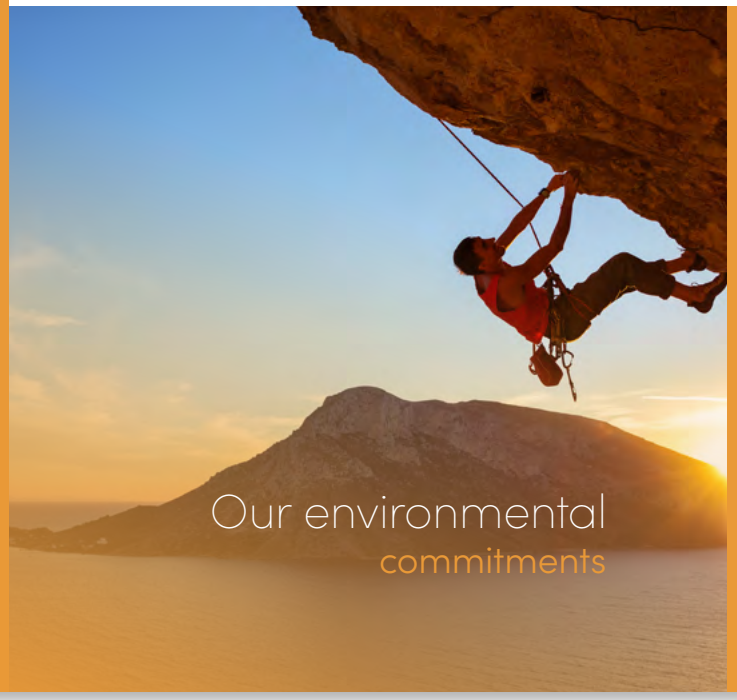
Our path to becoming an environmentally friendly business

Reduce our carbon footprint and greenhouse gas emissions to achieve **net-zero emissions by 2030**.

Minimize the environmental impact of our **operations**, and **products**.

Promote **sustainable practices** throughout our value chain.





Focus on **energy-saving measures** and progressively switch to **renewable energy sources**.

Reduce our resource consumption and **reduce waste to landfill**.

Adopt a life cycle assessment approach to evaluate our **products' carbon footprint**.

Adopt **responsible sourcing** policies and assess supplier sustainability standards.

Publish an **annual Environmental Sustainability Report** with defined metrics.

Moovimenta enviromental impact assessment

Five categories of impact are monitored across all four divisions: Energy consumption, greenhouse gas (GHG) emissions, volatile organic compounds (VOC) emissions, water use, and waste generation. Monitoring these data is crucial for understanding and assessing our current position and taking adequate actions to achieve our environmental targets. As the four divisions consist of different businesses and have distinct operations, we will comment on the general trends. Detailed explanations are provided in each division section.

Energy use

GHG Emissions

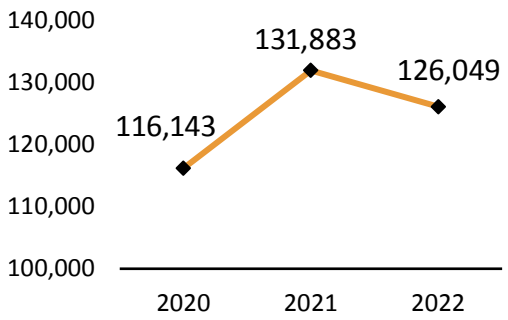
VOC Emissions

Water use

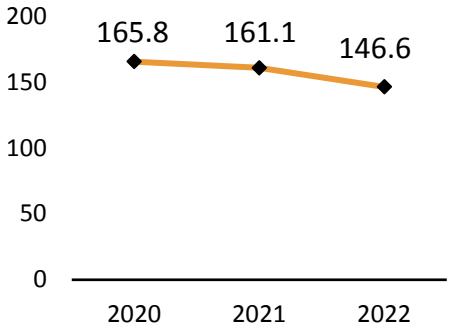
Waste generation & Disposal

Energy use

ENERGY USE
[MWh]



ENERGY USE INDEXED TO NET REVENUES
[MWh/MCHF]

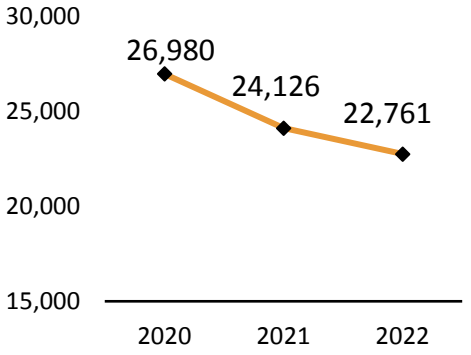


Electricity plays a more significant role in our energy consumption compared to fossil fuels, primarily comprised of Natural Gas. In 2022, there was a decrease in energy use following a peak in 2021. When considering the indexed values, a consistent downward trend in energy consumption can be observed from 2020 to 2022.

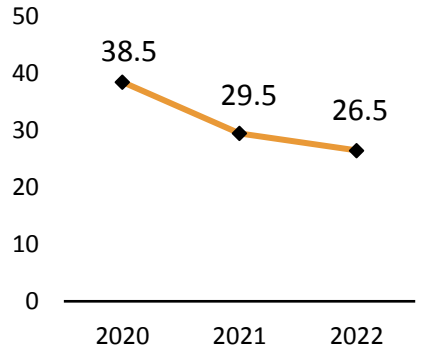
GHG Emissions

The trajectory of our GHG emissions illustrates a steady decline of 16% between 2020 and 2022. This encouraging trend can be attributed to our transition to renewable electricity sources and the reduction in energy consumption in 2022. Notably, in 2022, 57% of our electricity is sourced from renewable sources, underlining our commitment to carbon net zero by 2030.

GHG EMISSIONS
[tCO_2e]

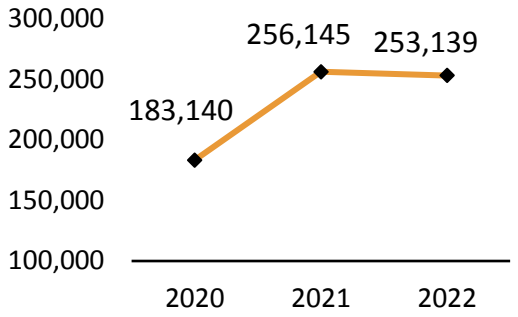


GHG EMISSIONS INDEXED TO NET REVENUES
[tCO_2e/MCHF]

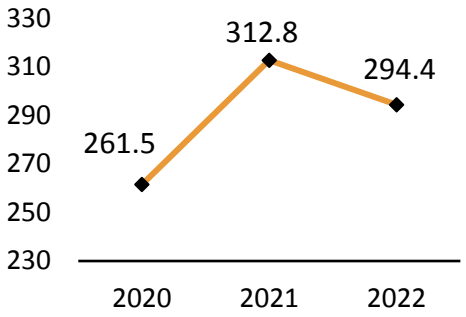


VOC Emissions

VOC EMISSIONS
[kg VOC]



VOC EMISSIONS INDEXED TO NET REVENUES
[kg VOC/MCHF]

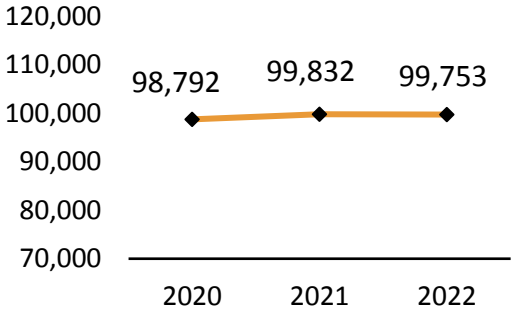


Volatile organic compound (VOC) emissions are systematically tracked, with measurement, or derived according to the VOC content present in solvents. The monitoring and reduction of these emissions is vital, it promotes the safety of our employees and the protection of our environment. In 2021, we witnessed a noticeable increase, followed by a subsequent modest decrease in 2022.

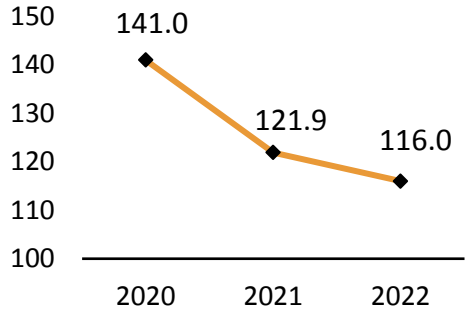
Water use

Water consumption has shown a relatively stable pattern between 2020 and 2022, while indexed by net sales, we observe a reduction of 18%. The water usage is specific to each division, often proportional to production volume or the employees' attendance. We recognize that water is a finite resource requiring responsible management, and we remain committed to reducing resource usage, including water.

WATER USE
[m^3]



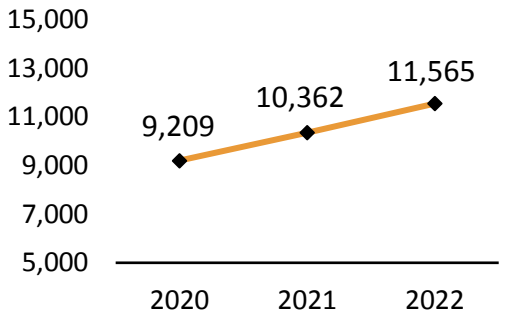
WATER USE INDEXED TO NET REVENUES
[m^3/MCHF]



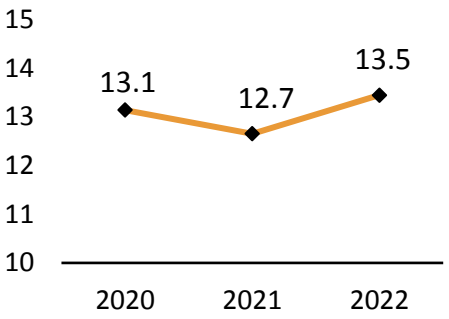
Waste generation & disposal

We recognize that effective waste management promotes resource efficiency and contributes to the circular economy, helping us to meet our commitment to responsible consumption and production (SDG 12).

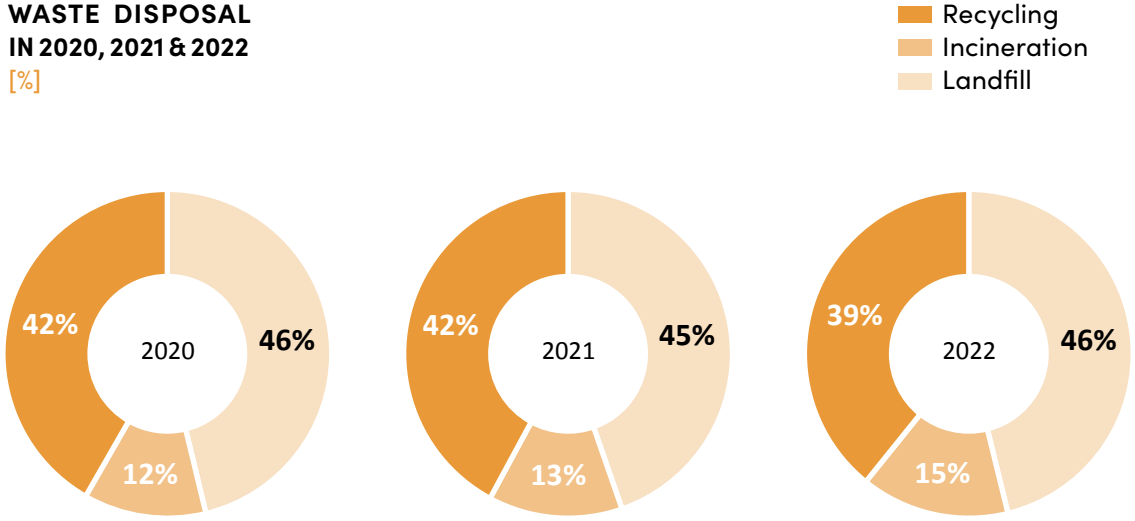
WASTE GENERATION
[t]



WASTE GENERATION INDEXED TO NET REVENUES
[t/MCHF]



WASTE DISPOSAL IN 2020, 2021 & 2022
[%]



Over the period of 2020 to 2022, we observed an upward trajectory in waste generation, primarily attributed to the growth in production volume.

Breaking down the waste according to disposal methods—recycling, incineration, and landfill—we find that a significant portion ends up in landfills (ranging from 45% to 46%), closely followed by recycling (ranging from 42% to 46%), and a smaller percentage in incineration (ranging from 12% to 15%).

While the observed increase in waste generation is not in line with our desired direction, it acts as a catalyst for intensifying our effort to reduce waste and enhance the share of recycling.

EMPOWER YOUR SUPPLY CHAIN WITH TRAPO'S SMART INTRALOGISTICS

At TRAPO, we've been at the forefront of automated intralogistics systems since 1957. Today, we offer high-end products that redefine industry standards, combining quality and smart applications. Our range of products includes conveyors, grippers, palletizers, and autonomous truck loading.

We unlock your potential

Our solutions empower fast, precise, and consistent production. Boost productivity while minimizing errors and accidents. Create a safe and secure work environment for your employee by reducing the risk of accidents and injuries.
Coupled with our maintenance services, TRAPO products outlast their warranty period, ensuring long-lasting reliability.

We go beyond products

We collaborate with you to develop customized solutions and assist you at every step for new or existing production lines. Our expertise and know-how allow you to optimize your supply chain and reduce operational costs.

We drive innovation

We constantly challenge the status quo, optimizing our products to reflect the latest technological advancements. With our dedicated R&D team and collaboration with the leading University in automation, we have developed over 200 different versions of grippers in the past 15 years.

MESSAGE FROM TRAPO CEO

Thomas Gutwald,
TRAPO CEO

As TRAPO, we understand our sustainability efforts as an obligation and want to take responsibility for future generations - in our professional and private environment. Currently, we are taking more resources from the earth than the planet can regenerate. Today's youth will have to bear the consequences of climate change as a heavy legacy of previous generations. To limit climate change, every TRAPO employee is required to act in accordance with the defined sustainability goals.

TRAPO's goal is to achieve net zero carbon emissions by 2030, according to the ESG Policy of the Moovimenta Group. We can achieve this by switching to Carbon-free heating in combination with a solar installation.

Our product portfolio for automated intralogistics is used in global markets. There and in the use of raw materials and intermediate products, we optimize energy consumption to make a significant contribution. We shape the cooperation between humans and robots so that workplaces today and in the future are safe, sustainable, efficient, and ergonomic. Our high-quality standards are the basis for the long service life of our systems to make the best possible use of resources. Our products can be recycled at the end of their life cycle like cars and electrical components.

TRAPO is not only certified to the ISO 9001 quality management standard but also to the ISO 14001 environmental management standard and the ISO 50001 energy management standard, the structural basis for our sustainability management. We already obtain our electricity exclusively from European hydropower plants. One of many measures is also the conversion of the company car fleet to electric cars.

We are proud that TRAPO was audited by EcoVadis and awarded a silver medal, which reflects our commitment to sustainability. We will continue to strive towards making a positive impact on the environment and ensuring a sustainable future for generations to come.

OUR MAIN **INDUSTRIES**

OUR SOLUTIONS FOR RESOURCES SAVINGS

ECO-BOX

Up to **25%** cardboard material saved.

Mixtray – reuse of card box

No need to dispose of the carton. This cycle of multiple uses saves valuable resources and reduces costs.

24-volt motorized technology

65% energy savings and reduced carbon emission.*

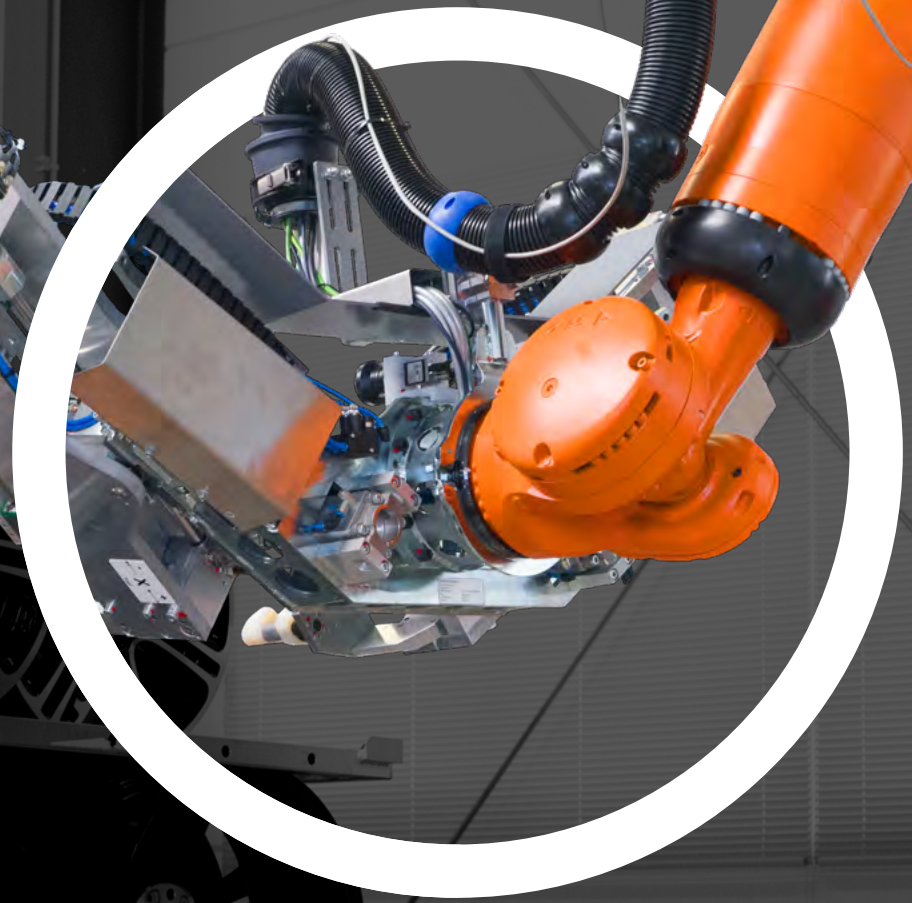
Low noise level **<60dB**.

*compared to conventional drive technology

TRAPO ENVIRONMENTAL IMPACT ASSESSMENT

Since 2020, we have been collecting environmental data through a combination of utility bills and measurements. The covered categories of impact are Energy consumption, greenhouse gas (GHG) emissions, volatile organic compounds (VOC) emissions, water use, and waste generation. Since 2021, an additional facility in Italy is factored in.

We have prioritized primary data (location-based) whenever accessible; otherwise, we relied on secondary data (market-based or country-based).
Monitoring this data helps us understand the environmental impact of our actions enabling us to make appropriate decisions.



ENERGY USE

GHG EMISSIONS

VOC EMISSIONS

WATER USE

WASTE GENERATION & DISPOSAL

ENERGY USE & CONSERVATION

Energy is employed mainly for heating, lighting, and supporting general office supplies. Unlike process-intensive industries, our production processes are not highly energy-demanding, which explains the lack of a pronounced connection between energy consumption and production volume. The energy consumption is constant from 2020 to 2021.

In 2022, we have recorded a 10% reduction in energy consumption. This is attributed to the mild winter conditions that necessitated less heating, accompanied by our initiatives to lower room temperatures during winter and awareness campaign, effectively decreasing fossil fuel consumption.

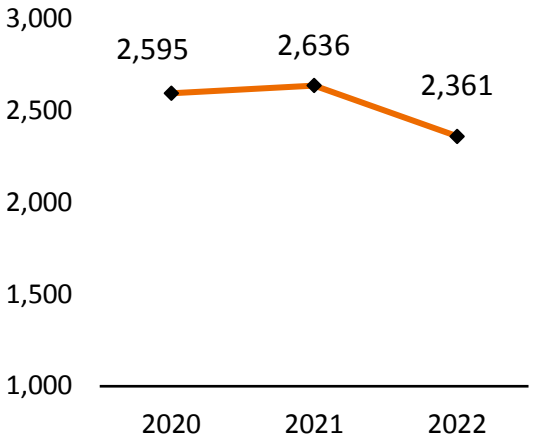
CASE STUDY
ENERGY CONSERVATION
Gescher-Hochmoor, Germany

Effective new lighting
TRAPO GmbH's assembly hall recently upgraded its lighting system, resulting in increased reliability, and brightness, and reduced daily consumption by approximately two-third:

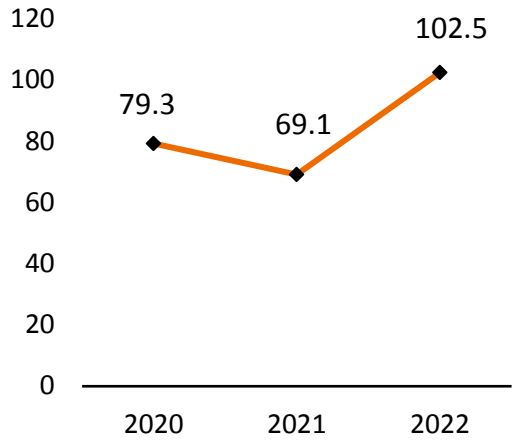
- Number of fluorescent tubes: Decreased from 350 to 100.
- Consumption at 10 hours of lighting time: **Reduced from 145 kWh per day to 56 kWh per day**

-61% daily lighting energy consumption

ENERGY USE
[MWh]



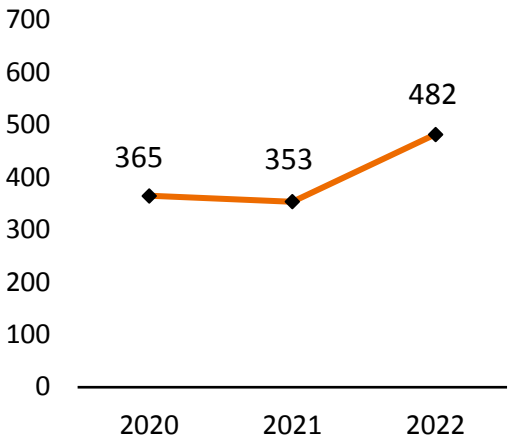
ENERGY USE INDEXED TO NET REVENUES
[MWh/MCHF]



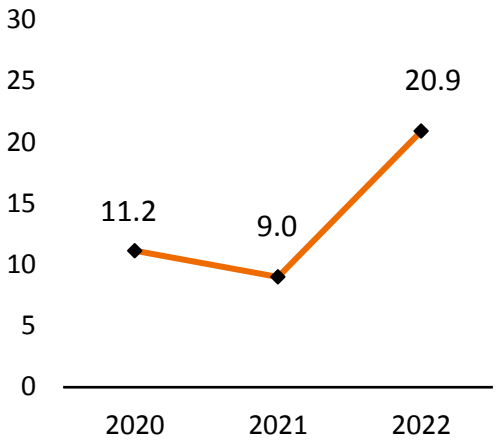
GHG EMISSIONS

The need to minimize greenhouse gas emissions (GHG) has never been more evident. According to the Intergovernmental Panel on Climate Change (IPCC), climate change mitigation is a shared duty of every organization and individual, and it must be addressed seriously and urgently. In response to this worldwide demand, we have committed to achieving carbon net-zero status for Scope 1 and 2 by 2030, in accordance with SBTi criteria. Our commitment begins with reducing carbon emissions at our facilities and extends to both upstream and downstream activities.

GHG EMISSIONS
[tCO_2e]



GHG EMISSIONS INDEXED TO NET REVENUES
[tCO_2e/MCHF]



At TRAPO, we rely solely on 100% renewable electricity, which effectively renders our Scope 2 emissions to zero.

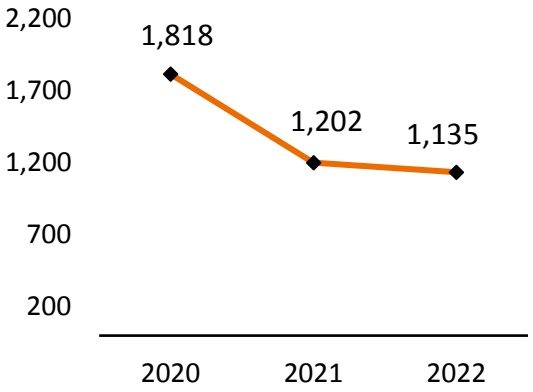
In 2021, we observed a modest decrease in greenhouse gas emissions, which is attributed to a shift in energy sources. Natural gas took up a larger share compared to diesel, while diesel consumption decreased. In 2022, our emissions saw a rise of 41% due to the inclusion of GHG emissions from our company cars. In 2022, the vehicles contribute to 32% of the total GHG emissions. Our operational emissions have been consistently decreasing. The trend shows there is a need to minimize the emissions from company vehicles. Our solution involves transitioning to electric cars.

The indexed values displayed a decrease from 2020 to 2021, followed by a significant increase in 2022. This rise resulted from revenues decline due to unsteady project business and postponed investment decisions linked to geopolitical and economic uncertainties such as the Ukraine crisis, resulting in energy shortages and higher costs. Additionally, overall inflation and extended supply lead times for components contributed to this change.

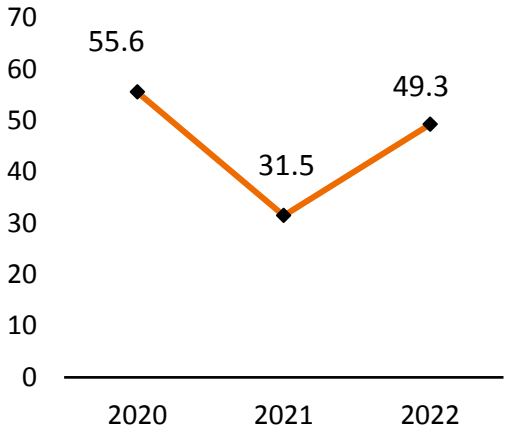
VOC EMISSIONS

VOCs can pose risks to both our employees in confined spaces and the environment by increasing air pollution. To address this, we diligently measure and minimize VOC levels. We derive VOC emissions by assessing the VOC content in each solvent used, factoring in annual solvent usage.

VOC EMISSIONS
[kg VOC]



VOC EMISSIONS INDEXED TO NET REVENUES
[kg VOC/MCHF]



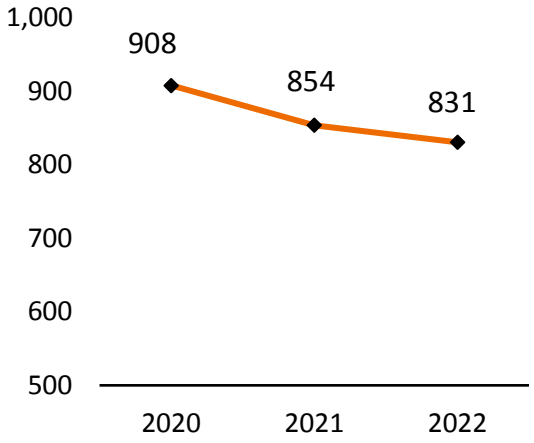
The paint shop is the main solvent-consuming area. We employ paint-mist separators to capture overspray. These filters are changed regularly, ensuring safe disposal and responsible operations.

From 2020 to 2022, VOC emissions dropped by 38%. While we are determined to adopt more water-based paints, a complete transition is challenging.

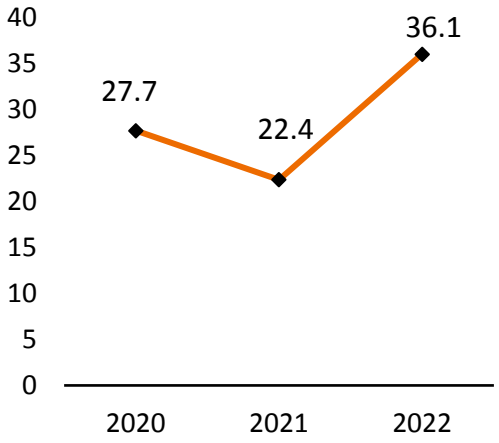
WATER USE & CONSERVATION

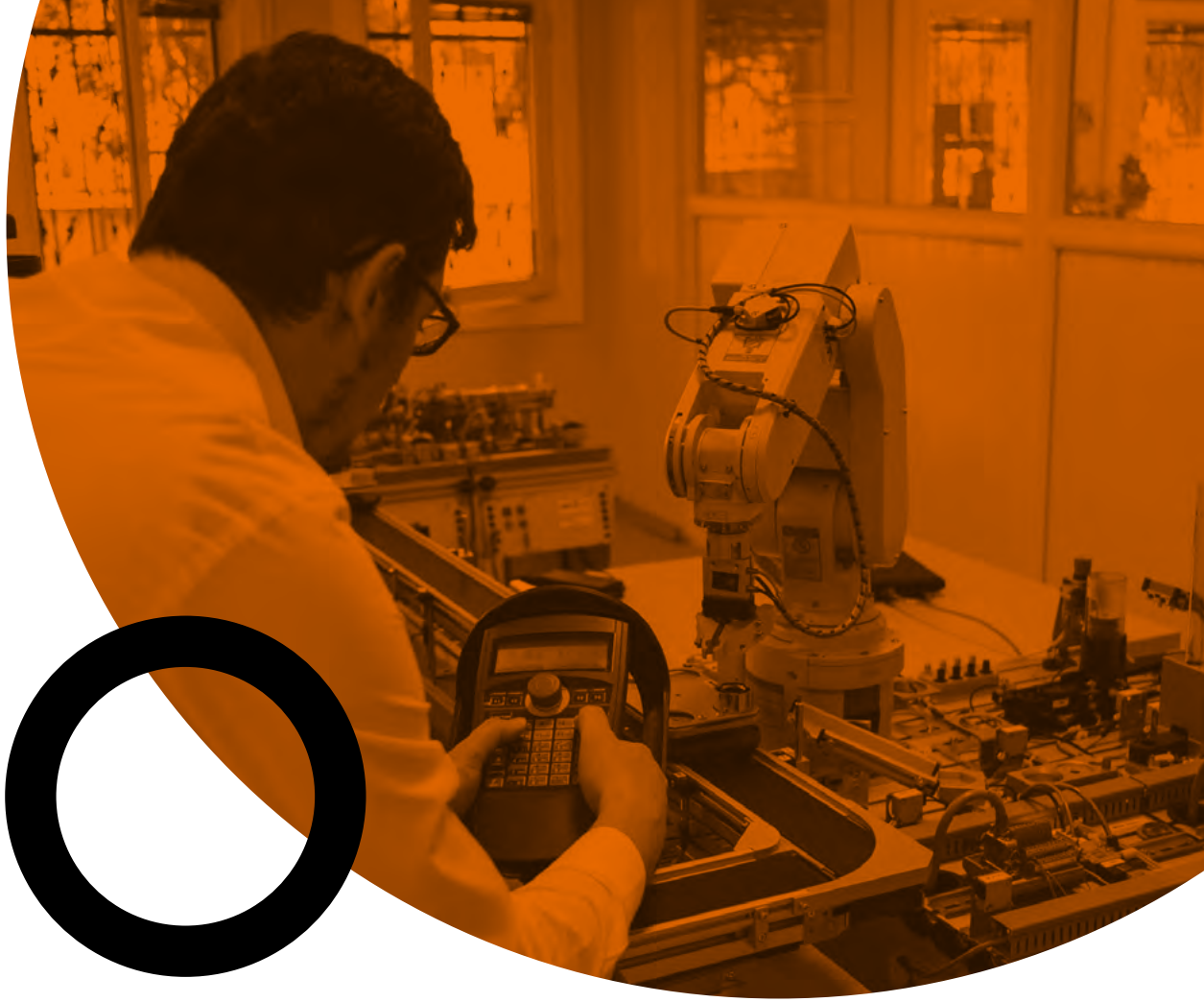
In our production processes, water consumption is primarily directed towards sanitary and cleaning purposes, with no significant impact on the volume output. This means that the volume of our production doesn't directly influence our water usage. It's important to note that our processes don't involve the use of harsh chemicals, ensuring that wastewater remains uncontaminated. This absence of chemical contamination eliminates the need for pre-treatment, allowing us to directly treat wastewater through the city sewage system.

WATER USE
[m³]



WATER USE INDEXED TO NET REVENUES
[m³/MCHF]



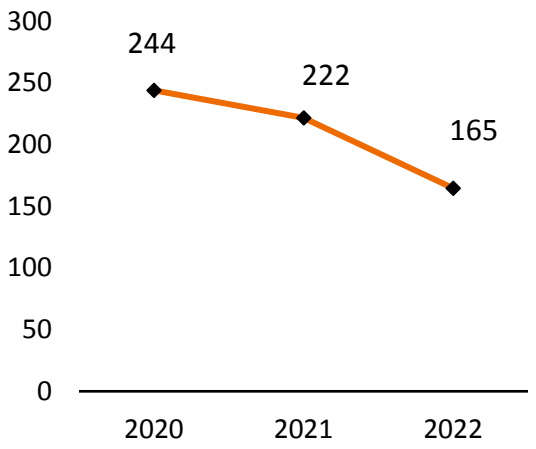


From 2020 to 2022, we observed a consistent decrease in water usage by 8%, a result of our efforts in creating awareness and promoting responsible water consumption. The current consumption rate of about 4.5 m³ per full-time employee per year seems reasonable, translating to roughly 20 liters per full-time employee per workday.

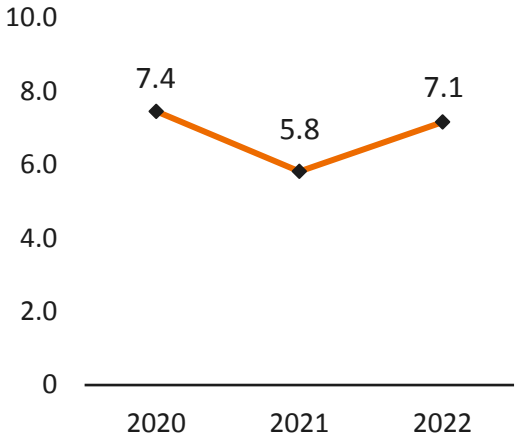
WASTE GENERATION & DISPOSAL

We recognize that effective waste management promotes resource efficiency and contributes to the circular economy, allowing us to stay on track with our commitment to responsible consumption and production (SDG 12).

WASTE GENERATION
[t]



WASTE GENERATION INDEXED TO NET REVENUES
[t/MCHF]

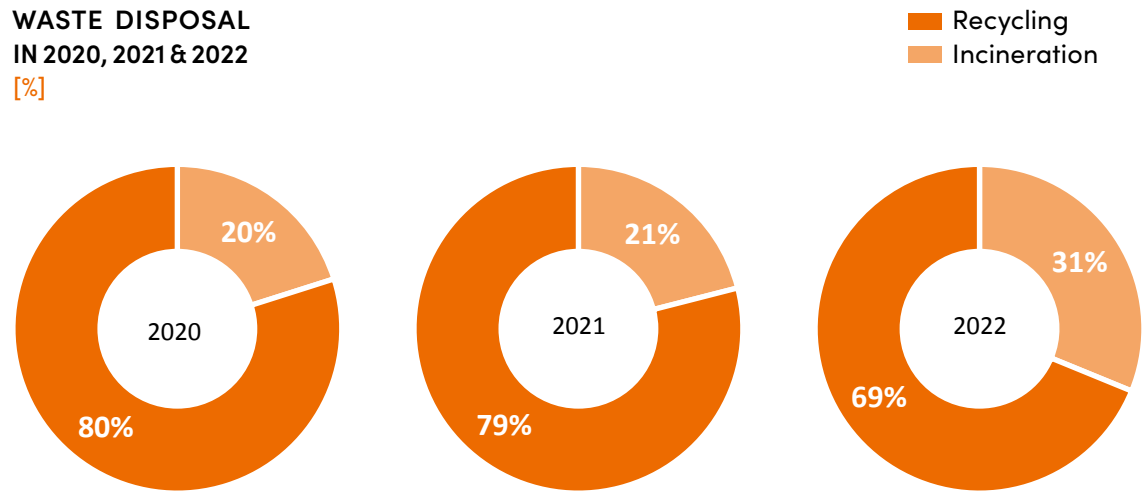


Our waste stream includes notably steel chips, packaging materials, wood (such as from pallets), and office waste. Waste is collected in separate bins which allows high recycling rates.

Over the period from 2020 to 2022, we have reduced our waste output by 32%.

However, our indexed values present an increase, largely attributed to a decrease in output, which is elaborated upon in the comment on page 58. The rise in the proportion of office waste has influenced a lower recycling quota. Additionally, the challenge of long supply lead times has contributed to an increase in packaging waste due to more frequent partial shipments of components. These emphasize the complexity of waste management.

WASTE DISPOSAL IN 2020, 2021 & 2022
[%]



DATA & INDEX

UNITS		MOOVIMENTA			TRAPO		
		2020	2021	2022	2020	2021	2022
ENERGY							
Energy use	MWh	116,143	131,883	126,049	2,595	2,636	2,361
Energy use indexed by net revenues	MWh/MCHF	165.8	161.1	146.6	79.3	69.1	102.5
Renewable energy consumption	MWh	-	19,644	37,257	-	887	837
GHG EMISSIONS							
Scope 1 (Direct)	tCO_2e	12,308	13,616	13,746	365	343	482
Scope 2 (Indirect)	tCO_2e	14,672	10,510	9,015	0	0	0
Carbon footprint (Scope 1&2)	tCO_2e	26,980	24,126	22,761	365	353	482
Scope 1 (Direct) indexed by net revenues	tCO_2e/MCHF	17.6	16.6	16.0	11.2	9.3	20.9
Scope 2 (Indirect) indexed by net revenues	tCO_2e/MCHF	20.9	12.8	10.5	-	-	-
Carbon footprint (Scope 1&2) indexed by net revenues	tCO_2e/MCHF	38.5	29.5	26.5	11.2	9	20.9
VOC EMISSIONS							
VOC emissions	kgVOC	183,140	256,145	253,139	1,818	1,202	1,135
VOC emissions indexed by net revenues	kgVOC/MCHF	261.5	312.8	294.4	55.6	31.5	49.3
WATER							
Water	m^3	98,792	99,832	99,753	908	854	831
Water indexed by net revenues	m^3/MCHF	141.0	121.9	116.0	27.7	22.4	36.1
WASTE							
Waste	t	9,209	10,362	11,565	244	222	165
Waste indexed by net revenues	t/MCHF	13.2	12.7	13.5	7.5	5.8	7.2

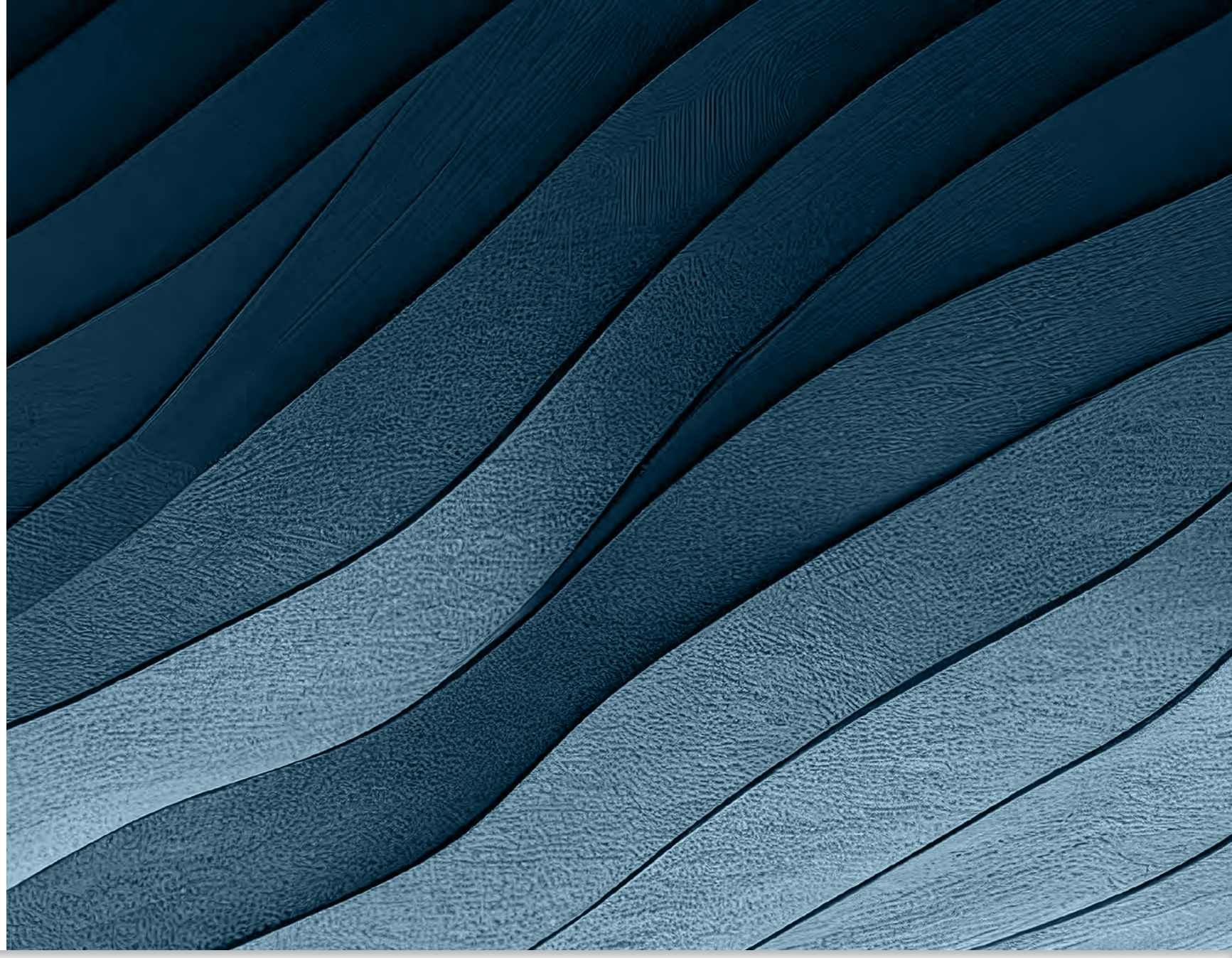
DATA SCOPE

In scope

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

Out of scope

- The sites with fewer than five employees.
- The GHG emissions from mobile combustion (company vehicles) in 2020 and 2021 data. In 2022, 64% of the sites are reporting GHG emissions for vehicles. As we move forward, we are committed to encompassing all sites.



GLOSSARY

GHG	Greenhouse Gas
IPCC	Intergovernmental Panel on Climate Change
SBTi	Science-based Target initiatives
SDGs	Sustainable Development Goal
UN	United Nations
UNGC	United Nations Global Compact
VOC	Volatile Organic Compounds

Units

m^3	Cubic meter
MCHF	Million Swiss franc
MWh	Mega Watthour
t	Metric ton
tCO_2e	Metric ton carbon dioxide equivalent