

Year 2023

GHG emissions report

st screening technologies GmbH



28/03/2025

Foreword

Congratulations on pursuing your climate journey. Greenly is proud to contribute to st screening technologies GmbH's climate strategy, and support you on a path towards Net Zero.

This report synthesizes the results of your greenhouse gas (GHG) emissions assessment. It is a first step toward identifying reduction actions and helping you plan for the energy transition.

While offering some benchmarks to compare with other companies, a GHG emissions assessment is mainly used to identify ways to improve your global impact and to help you define a reduction trajectory. Achieving your decarbonization targets involves engaging your ecosystem of employees, customers and suppliers who will need to align with your new targets.

The evaluation of your emissions is in line with carbon accounting international standards as standardized by the GHG Protocol.

We are happy to support you on your journey. The entire Greenly team would like to thank you for your outstanding commitment.



Alexis Normand
CEO of Greenly

A handwritten signature in black ink, appearing to read 'Alexis Normand', positioned below the printed name and title.A small, faint handwritten signature in the bottom left corner of the page, matching the signature of Alexis Normand.

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About Greenly

- Our vision & team

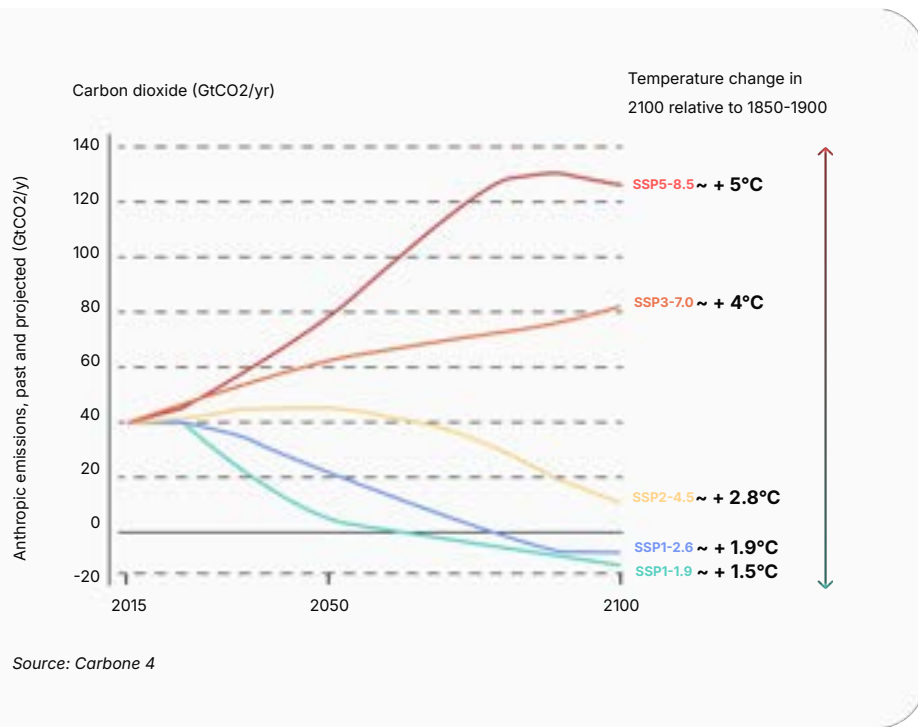
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Appendix

- Scope 1-2 details
- Scope 3 details

Why care about the energy transition

Regardless of our management of the environmental crisis, organizations and individuals are heading towards major upheavals that will affect entire ecosystems.



Two types of disruptions



Physical risks and constraints



Transition risks and opportunities

Impacted sectors



Production



Supply chain



Market



Infrastructure



HR



Legislation

Physical risks...

Definition

Risks related to exposure to the physical consequences of global warming



Average temperature increase and more extreme fluctuation



Intensification of extreme weather events (rain, heat waves/droughts, etc.)



Sea level rise



Scarcity of resources (especially energy), food and water insecurity



Biodiversity collapse

What are the consequences if I don't commit?

- 1 Deterioration of infrastructure, value chain losses
- 2 Direct economic consequences
- 3 Low resilience to future events and physical constraints (e.g. natural disaster)
- 4 Dependence on an increasingly fragile supply chain (availability and cost of resources, flexibility, fluctuation of fossil fuels)
- 5 Disruptions in living conditions (housing, food, health, transport, etc.)

Transition risks (and opportunities)

Definition

Risks related to the transition to a low-carbon economy



Regulatory developments and mitigation policies



Markets and sectors migrating towards promoting low-carbon value creation:
Opportunities to seize
Associated market risks



Growing stakeholder demands on environmental commitments



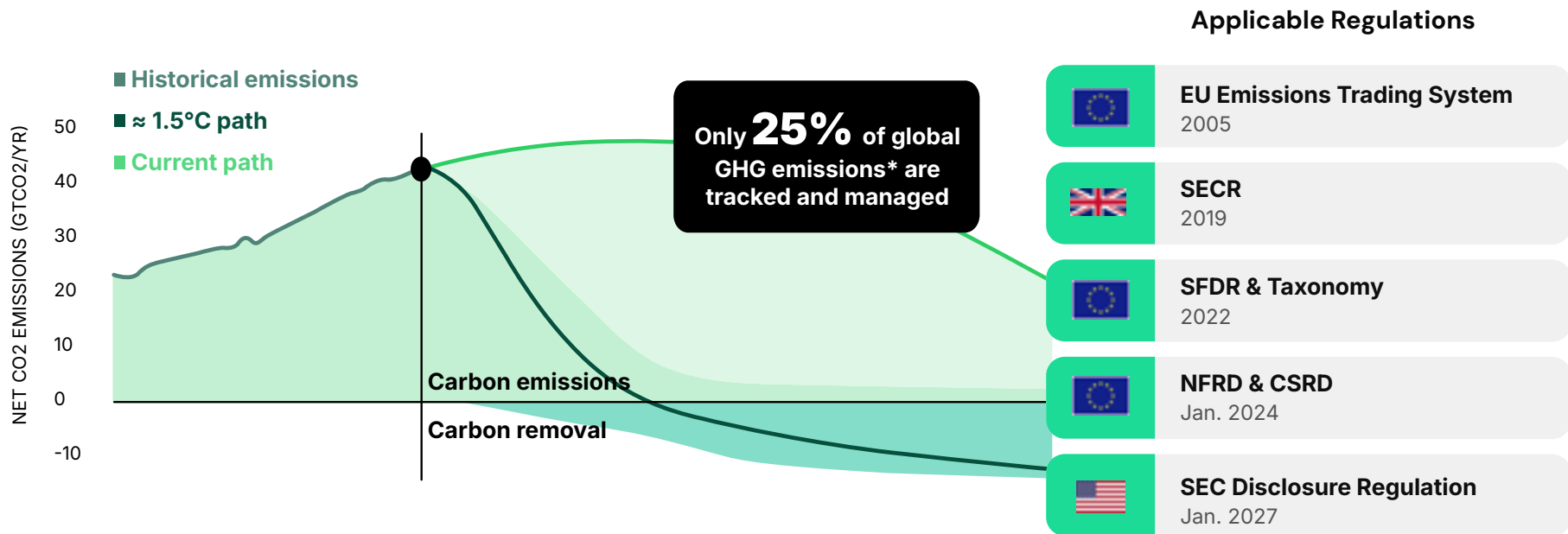
Shifting employee mindsets and expectations regarding the environmental reputation of their employer

What are the opportunities if I commit?

- 1 Optimization of flows and costs
- 2 More sustainable business activity and corporate strategy
- 3 Increased competitiveness within my ecosystem
- 4 Resilience and autonomy of activities in the face of the new socio-economic paradigm
- 5 Lower exposure to legal and financial constraints and sanctions

It is critical to set a course for Net Zero

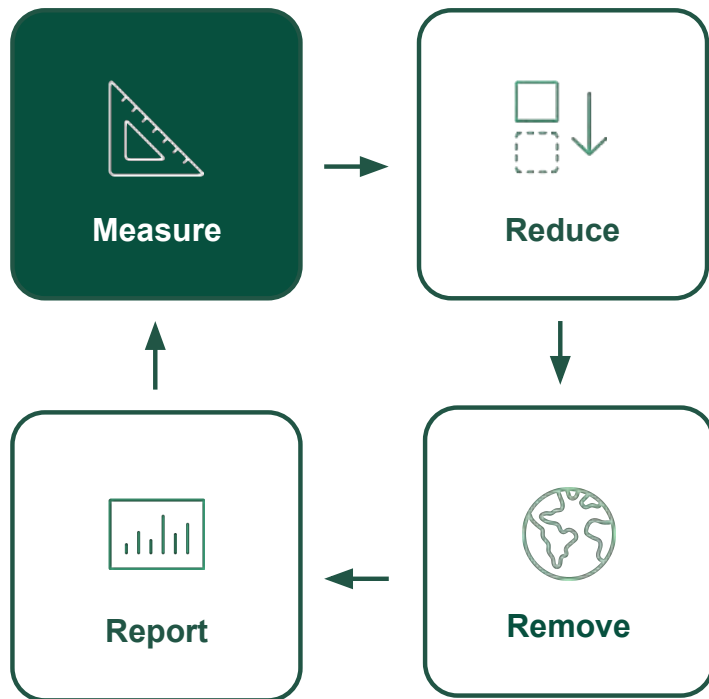
REACHING PLANETARY DECARBONIZATION GOALS IMPLIES THAT ALL BUSINESSES TRACK THEIR EMISSIONS, REGULATIONS ARE KICKING IN



Source: *Carbon Pricing Leadership Report

Solving the Climate Equation

MEASURING EMISSIONS IS THE FIRST STEP TO SETTING A PATH TOWARDS NET ZERO



Carbon accounting methodology

Scope 1 | Direct emissions

GHG emissions generated directly by the organization and its activities.

Examples: combustion of fossil fuels, refrigerant leaks, etc.

Scope 2 | Indirect emissions related to energy consumption

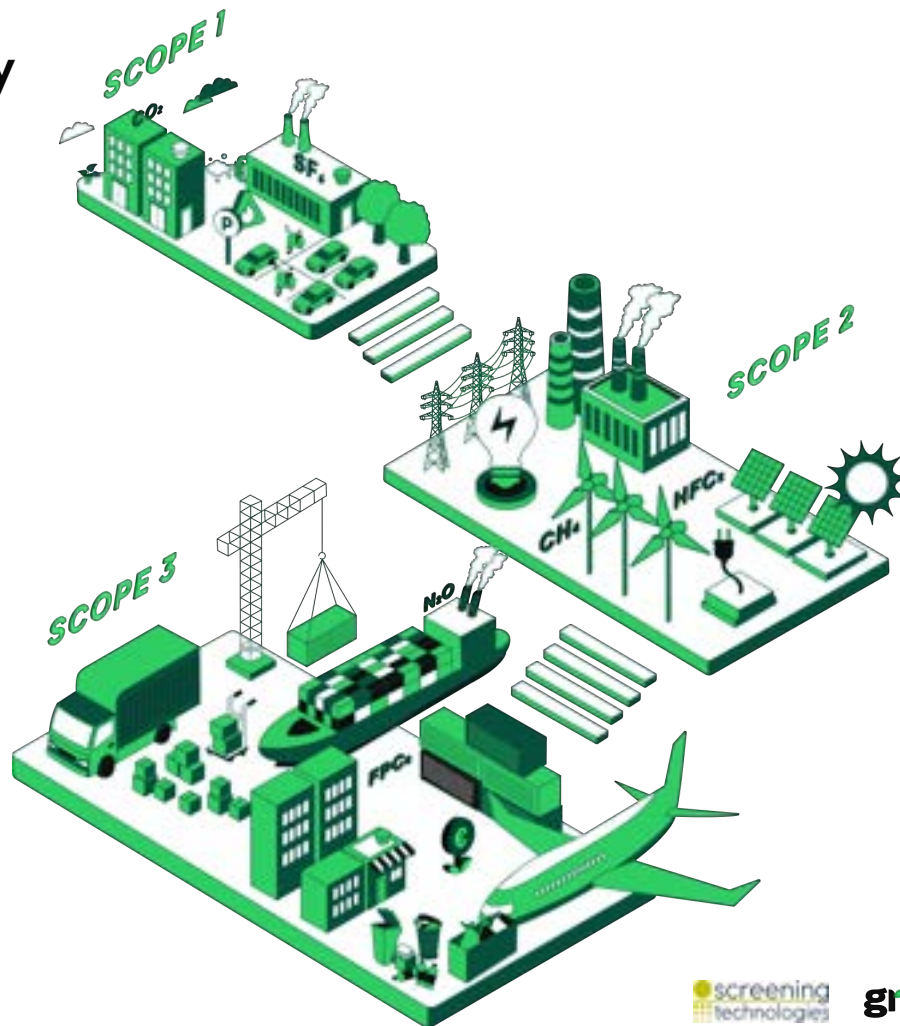
Emissions related to the organization's consumption of electricity, heat or steam.

Example: electricity consumption, etc.

Scope 3 | Other indirect emissions

Emissions related to the organization's upstream and downstream operations and activities

Example: transportation, purchased goods and services, sold products, etc.






How are emissions computed?

ANALYZING EMISSIONS, AUTOMATING TRACKING

74% of your emissions of 2023 are calculated using activity data

Activity metrics x Emissions factors = CO2 Eq. Emissions

Expense based ↑ Increasing Accuracy* ↓ Activity based	 Total Expense 80 €	1.75 kgCO₂e/€	140 kgCO₂e
	 Total Distance 600 miles	0.2 kgCO₂e/mile	120 kgCO₂e
	 Total Fuel 40 gallons	2.8 kgCO₂e/gallon	112 kgCO₂e

*depending on the availability of data

Emission Factor Sources



GHG emissions assessment scopes

Entity

st screening technologies GmbH
From January 2023 to December 2023

-

Primary data

Accounting data
Employee survey
Buildings data
Activity data from the following modules: Travels, IT Inventory, Machines Inventory, Products & Raw Materials Inventory, Waste

Methodology

Official and approved GHG Protocol methodology; GWP 100

Emissions generated in and outside the country of operation are accounted for. The methodological details of the calculation of each carbon footprint source are available on the Greenly platform.

Measurement scope

All emissions under operational control

- ✓ Category included
- Category excluded
- ✗ Category irrelevant

Scope 1

- ✓ 1.1 Generation of electricity, heat or steam
- ✓ 1.2 Transportation of materials, products, waste, and employees
- ✗ 1.3 Physical or chemical processing
- ✓ 1.4 Fugitive emissions

Scope 2

- ✓ 2.1 Electricity related indirect emissions
- ✓ 2.2 Steam, heat and cooling related indirect emissions

Scope 3

- ✓ 3.1 Purchased goods and services
- ✓ 3.2 Capital goods
- ✓ 3.3 Fuel- and energy- related activities not included in Scope 1 or Scope 2
- ✓ 3.4 Upstream transportation and distribution
- ✓ 3.5 Waste generated in operations
- ✓ 3.6 Business travel
- ✓ 3.7 Employee commuting
- ✗ 3.8 Upstream leased assets
- ✗ 3.9 Downstream transportation and distribution
- ✗ 3.10 Processing of sold products
- ✓ 3.11 Use of sold products
- ✓ 3.12 End-of-life treatment of sold products
- ✗ 3.13 Downstream leased assets
- ✗ 3.14 Franchises
- ✗ 3.15 Investments

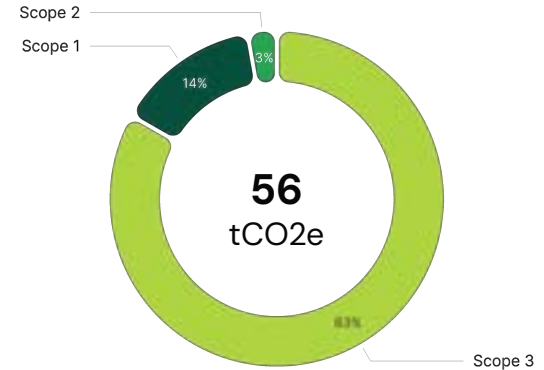
Executive summary

This report summarizes the results of st screening technologies GmbH's 2023 GHG emissions assessment based on the information collected and subject to its completeness, correct categorization and validation. **This assessment is useful in identifying the main areas for mitigating your environmental impact.**



GHG emission assessment result

Scope 1	7.8tCO ₂ e	2.6t/employee	8.9t/M€
Scope 2	1.6tCO ₂ e	0.5t/employee	1.8t/M€
Scope 3	47tCO ₂ e	16t/employee	53t/M€
Total	56tCO₂e	19t/employee	64t/M€



Results subject to the correct categorization and validation of expenses of st screening technologies GmbH.

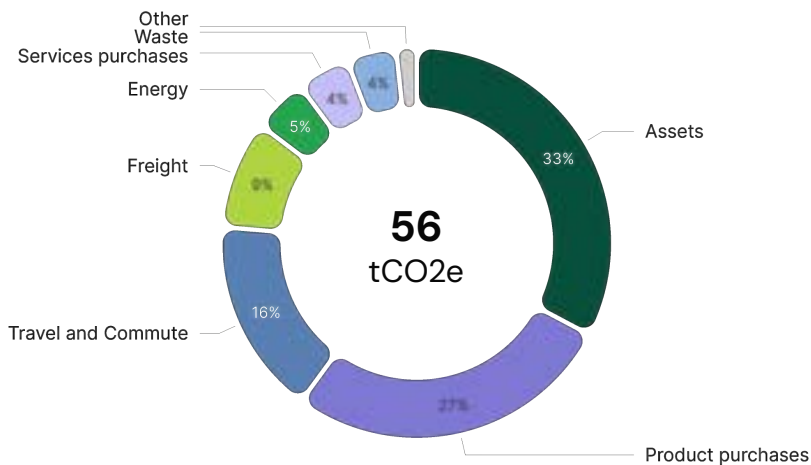


Emissions Report

General overview

RESULTS BY ACTIVITY

Total emissions of st screening technologies GmbH, by activity (% tCO₂e)



Is equivalent to:



The amount of CO₂ sequestered annually by 5 hectares of growing forest*



The annual emissions of 4 Austrians*



27 Vienna - New York round trips*

Absolute
tCO₂e

Per employee
tCO₂e/employee

Activity	Absolute tCO ₂ e	Per employee tCO ₂ e/employee
Assets	18	6.1
Product purchases	15	5.1
Travel and Commute	9.1	3
Freight	5	1.7
Energy	2.5	0.8
Services purchases	2.4	0.8
Others**	3.3	1.1

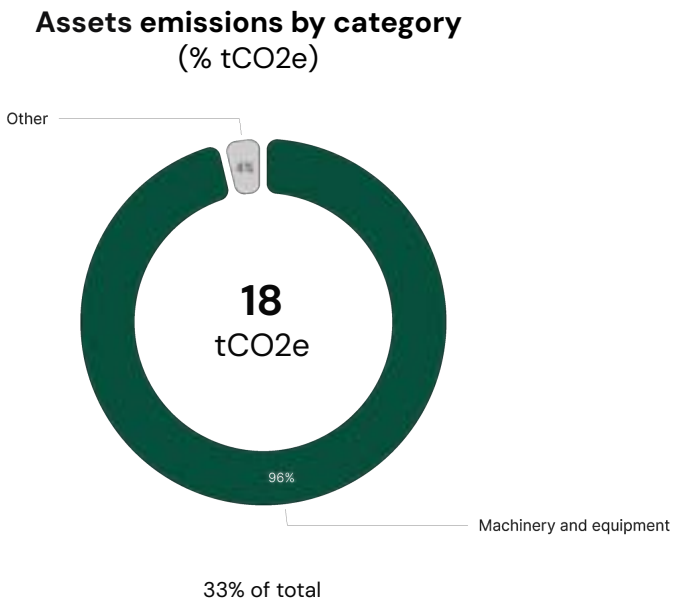
*Sources: Labos1Point5, ExioBase, French National Forests Office

**Waste, Digital, Activities and events, Food and drinks

Focus on Assets

Activity data
16 tCO₂e (88%)

Expense data
2.2 tCO₂e (12%)



What is included in this category?

CO₂ emissions from capital assets, covering construction, operation, and maintenance. Excludes energy consumption during use and end-of-life emissions.



How to reduce the impact of this category?

You can adopt the following measures:

- Extend the life of your machinery and equipment
- Set up a system for recovering and reusing used work equipment.

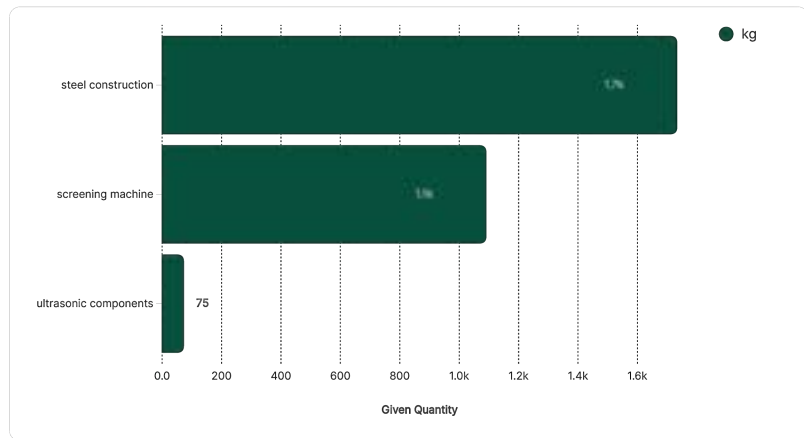
Methodology

1. Emissions calculated using activity and expense data, by multiplying a quantity by an emission factor.
2. The emission factors used for this category come from the following databases: Base Carbone Ademe 22.0, Company Report 1.0, Exiobase 8.3.2, Greenly 1.0
3. Details of the methodology used to calculate each carbon footprint source are available on the Greenly platform.

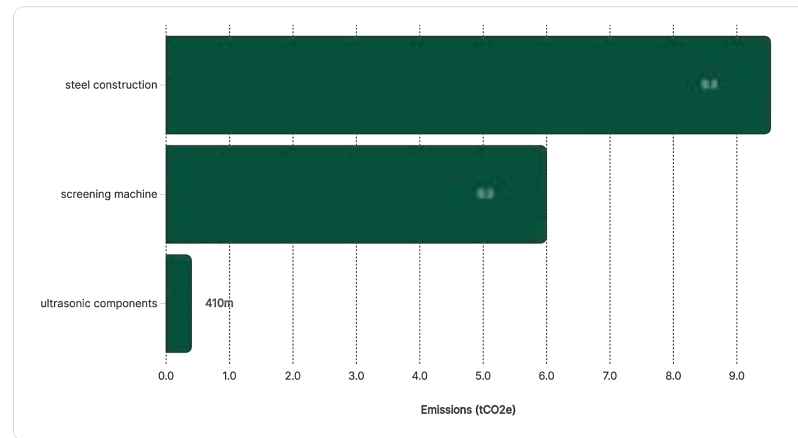
Focus on Assets

ACTIVITY DATA ANALYSIS: MACHINES INVENTORY

Quantities



Emissions



This module covers 28% of total emissions.

This represents 16 tCO2e.

Methodology

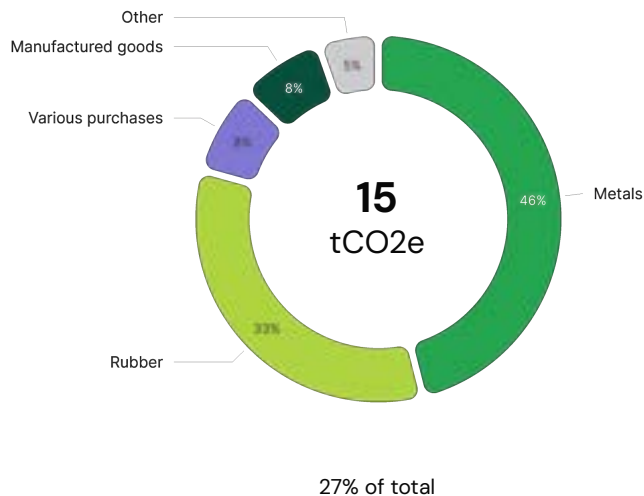
1. Emissions are computed by multiplying the physical data with emission factors (in kgCO2e, for instance).
2. Emission factors used for this category come from the following databases: Base Carbone Ademe 22.0
3. The specific steps involved in calculating the carbon footprint for each source can be found in the methodological details provided on the Greenly platform.
4. To see more visualisations visit Greenly's platform

Focus on Product purchases

Activity data
12 tCO₂e (76%)

Expense data
3.6 tCO₂e (24%)

Product purchases emissions by category (% tCO₂e)



What is included in this category?

CO₂ emissions from purchased products, covering raw material extraction and manufacturing. Excludes transport and end-of-life emissions.



How to reduce the impact of this category?

You can adopt the following measures:

- Ecodesign your product by conducting comparative LCAs
 - Implement carbon impact conditions in your product purchase policy
 - Buy recycled material - Iron
- See additional best practices in the action plans section

Methodology

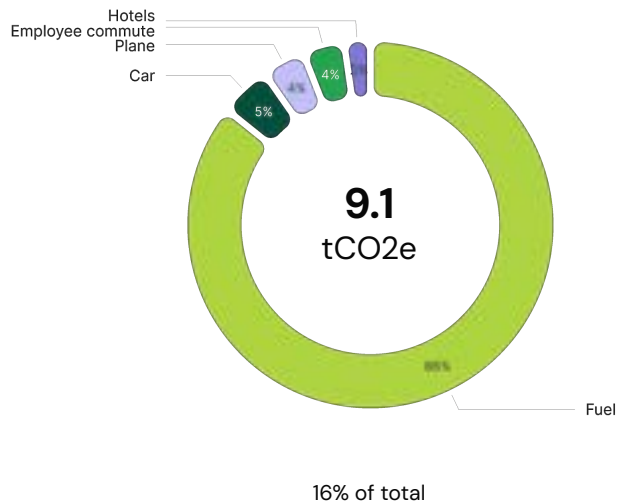
1. Emissions calculated using activity and expense data, by multiplying a quantity by an emission factor.
2. The emission factors used for this category come from the following databases: Ecoinvent 3.7.1, Exiobase 3.8.2, Exiobase 8.3.2
3. Details of the methodology used to calculate each carbon footprint source are available on the Greenly platform.

Focus on Travel and Commute

Activity data
8.7 tCO₂e (95%)

Expense data
0.4 tCO₂e (5%)

Travel and Commute emissions by category (% tCO₂e)



What is included in this category?

CO₂ emissions from travel and commuting, covering various transportation modes. Includes direct fuel combustion and indirect fuel production emissions.



How to reduce the impact of this category?

You can adopt the following measures:
No actions selected for this category

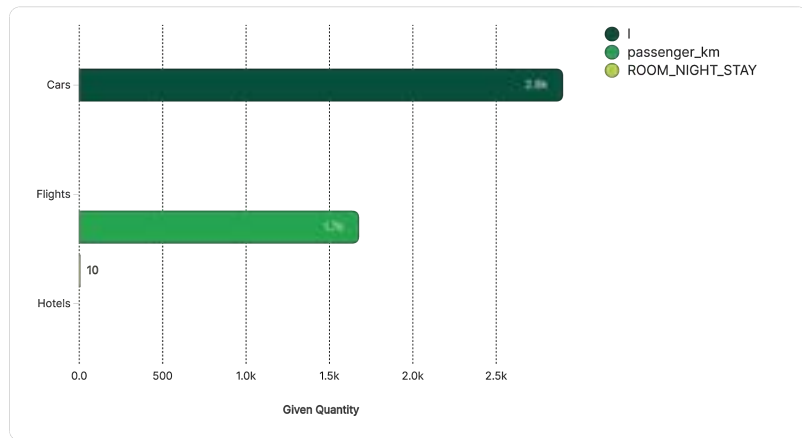
Methodology

1. Emissions calculated using activity and expense data, by multiplying a quantity by an emission factor.
2. The emission factors used for this category come from the following databases: Base Empreinte Ademe 23.1, Cornell Hotel Sustainability Benchmarking Index 2023, Exiobase 3.8.2, Exiobase 8.3.2, Uk GHG Conversion Factor 2024
3. Details of the methodology used to calculate each carbon footprint source are available on the Greenly platform.

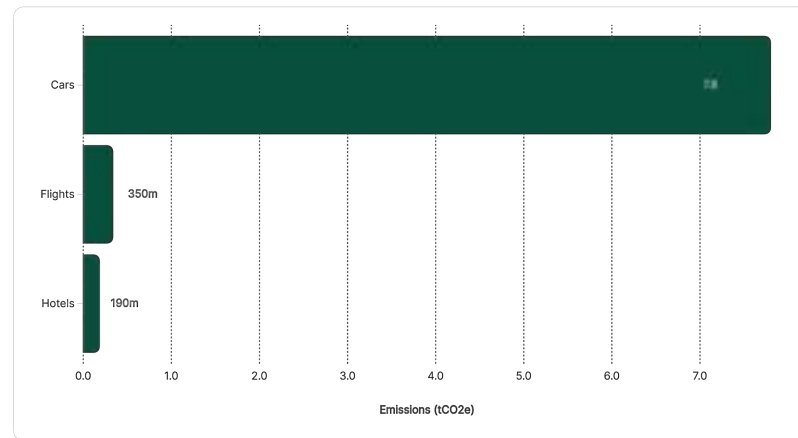
Focus on Travel and Commute

ACTIVITY DATA ANALYSIS: TRAVELS

Quantities



Emissions



This module covers 15% of total emissions.

This represents 8.3 tCO2e.

Methodology

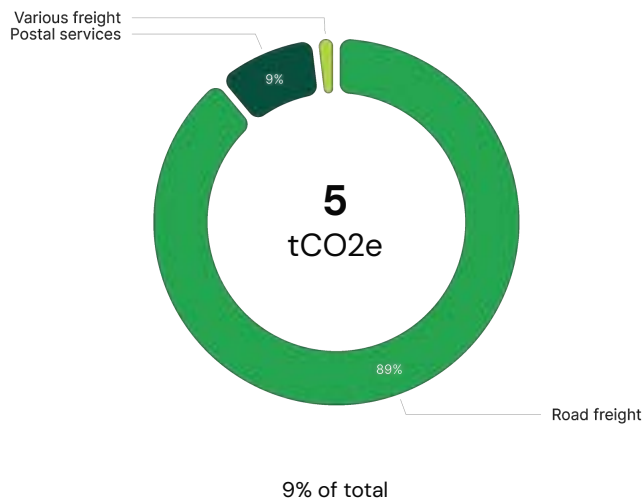
1. Emissions are computed by multiplying the physical data with emission factors (in kgCO2e, for instance).
2. Emission factors used for this category come from the following databases: Base Empreinte Ademe 23.1, Cornell Hotel Sustainability Benchmarking Index 2023, Uk GHG Conversion Factor 2024
3. The specific steps involved in calculating the carbon footprint for each source can be found in the methodological details provided on the Greenly platform.
4. To see more visualisations visit Greenly's platform

Focus on Freight

Activity data
0 tCO₂e (0%)

Expense data
5 tCO₂e (100%)

Freight emissions by category (% tCO₂e)



What is included in this category?

CO₂ emissions from freight transport, covering shipping, trucking, rail, and air cargo. Includes emissions from fuel combustion and production.



How to reduce the impact of this category?

You can adopt the following measures:

- Use of non-road modes of transport – Rail freight
- Ensure optimal routing and loading of your trucks
- Raise awareness among road subcontractors

Methodology

1. Emissions calculated using expense data, by multiplying a quantity by an emission factor.
2. The emission factors used for this category come from the following databases: Exiobase 3.8.2, Exiobase 8.3.2
3. Details of the methodology used to calculate each carbon footprint source are available on the Greenly platform.



Focus on Buildings

Focus on buildings

ACTIVITY ANALYSIS

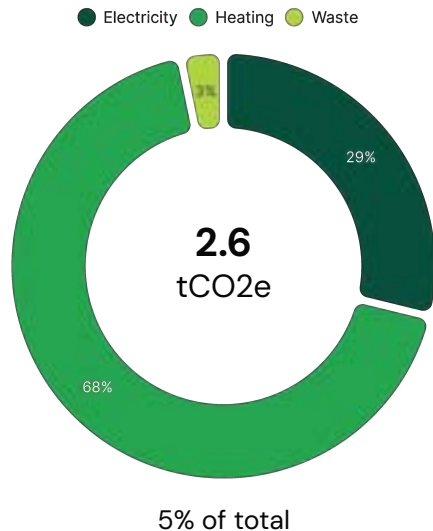
Activity emissions

2.6 tCO₂e (100%)

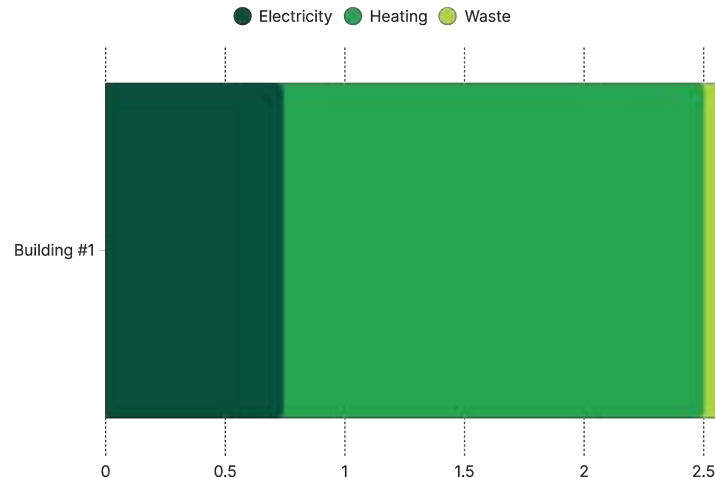
Estimated emissions

0 tCO₂e (0%)

Total emissions per category (tCO₂e)



Total emissions per building (tCO₂e)



Methodology

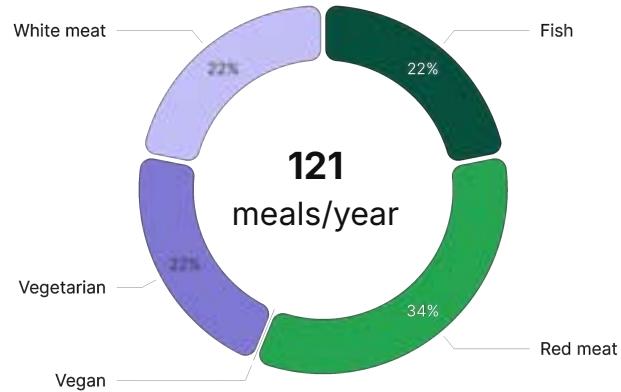
1. Emissions linked to heating and energy use are calculated by multiplying (where available) the building's electricity or gas consumption by an emission factor. Failing this, an estimate is calculated on the basis of building surface area, or even the number of employees when surface area is not provided.
2. Waste-related emissions are estimated on the basis of the number of employees.
3. Air-conditioning emissions correspond to refrigerant leaks (average estimate).



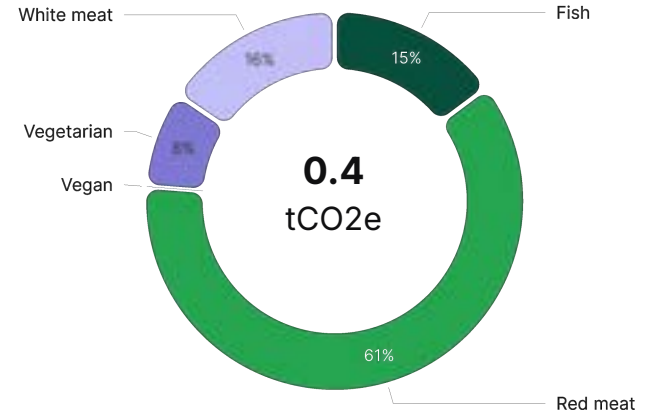
Focus on Employees

Focus on Employee Meals

Number of meals per employee per year
(per diet)



GHG emissions
(tCO2e / employee)



Methodology

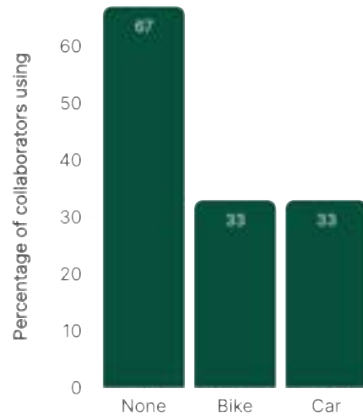
Analysis is based on the employee survey, which obtained a 100% response from your employees to whom the questionnaire was sent (3 responses).

The data used to calculate meals-related emissions are from the French Agency for Ecological Transition (ADEME).

Meal emissions are not accounted for, this slide is only an analysis of the responses to the employee survey.

Focus on Employee Commute

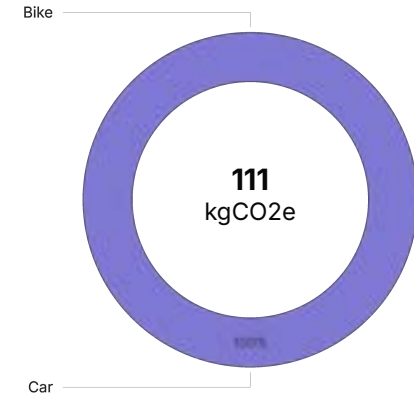
Usage of transport modes



Yearly mean distance distribution



GHG emissions (kgCO₂e / employee)



On average, your employees travel 363 km each year, emitting 111 kgCO₂e for home-work commuting.

Methodology

Analysis is based on the employee survey, which obtained a 100% response from your employees to whom the questionnaire was sent (3 responses).

The data used to calculate commute-related emissions are from the French Agency for Ecological Transition (ADEME).

More details on the [employees page](#) of Greenly



Focus on Action Plans

How can I implement effective reduction actions?

🔍 To meet global targets, emissions will have to fall by **3 to 7% per year***. It's a tough target, but a necessary one!

WHAT ARE THE BEST PRACTICES FOR ACHIEVING THESE OBJECTIVES?



COMMUNICATE the results of your GHG assessment to all your teams so that they are on board with the process of reducing emissions.

INVOLVE management and find internal sponsors responsible for implementing reduction actions.

ENGAGE your ecosystem (suppliers and customers) and ask about their reduction strategy, in order to prioritise virtuous suppliers.

INCREASE your teams' awareness of climate change using our platform to alert and facilitate the implementation of your reduction actions.

These first steps will enable you to maximise your chances of success in implementing reduction actions.

WHAT REDUCTION MEASURES CAN MY COMPANY TAKE?

The reduction actions we recommend are selected with:

AMBITION

Some actions involve major changes, but they will bring you closer to achieving the global climate targets.

REALISM

The action plans are based on practical examples already implemented in other pioneering companies.

EFFICIENCY

Implementing them will have a real impact on your emissions in the short and long term.

Assets





Set up a system for recovering and reusing used work equipment.

Asset

Implementing a system for recovering and reusing used work equipment reduces the company's carbon footprint by minimizing the emissions associated with the production of new equipment. This approach, focused on extending the lifespan of existing goods, promotes a circular economy while generating savings, enhancing the company's image and contributing to responsible waste management. Adopting this initiative demonstrates the company's commitment to sustainability and reducing its carbon footprint.

Benchmark

Google has introduced a program called the "Take Back Program" which allows employees to return their old work clothes for recycling. They have also adopted a more relaxed dress code policy, encouraging more moderate consumption.

IKEA encourages a more sustainable approach to fashion by providing sustainable work uniforms and exploring solutions to extend the life of its employees' clothing.

Estimated Impact

The implementation of a system for the recovery and reuse of used work equipment is estimated to have a significant positive carbon impact. By reducing the manufacture of new equipment, this action contributes directly to the reduction of greenhouse gas emissions throughout the life cycle, thus promoting a more sustainable and responsible approach to the environment.

Estimated Cost

The estimated cost of setting up a system to recover and reuse used work equipment varies according to the size and complexity of the company. Despite potential initial investments, long-term economic benefits, such as savings on the purchase of new equipment, can offset these costs.

Implementation

- 1** VALUE the quantity of materials that could be recovered. Consider volume, associated emissions and market impact.
- 2** CONDUCT a study to see how to set up a recovery and reuse system.
- 3** SEARCH for suppliers who can meet your materials collection and recycling needs.



Extend the life of your machinery and equipment

Asset

Machinery and equipment are essential for businesses, but their environmental impact is significant. On average, the manufacture of one tonne of machinery emits almost 5.5 tonnes of CO2 (Ademe figures). What's more, every year, around 50 million tonnes of electronic waste are generated worldwide, much of it from obsolete equipment. Extending the life of these machines can make a significant contribution to reducing greenhouse gas emissions.

Benchmark

IBM, a tech company, has adopted an approach focused on extending the life of its computer servers. Using regular upgrades and refurbishments, IBM has managed to extend the life of this equipment while reducing electronic waste. Caterpillar, a manufacturer of heavy equipment, encourages the extension of product life by providing high-quality spare parts and certified repair services. This enables customers to keep their equipment in good condition for longer.

Estimated Impact

Extending the life of machinery and equipment can reduce the carbon emissions associated with their manufacture by 20% to 30% or more, depending on the frequency of replacement.

Estimated Cost

Preventive maintenance, repair and refurbishment costs depend on the initial condition of the equipment. However, they are generally lower than the cost of acquiring new equipment.

Recommended Service Providers

To implement this action, you can call on specialist equipment maintenance and repair services. This can include certified spare parts suppliers and qualified technicians.

Implementation

- 1** MAKE an inventory of all your company's machinery and equipment to assess their current condition and determine which can benefit from a life extension.
- 2** DRAW UP a preventive maintenance plan for each piece of equipment, taking into account the manufacturer's recommendations and including regular inspections, replacement of worn parts and necessary repairs.
- 3** TRAIN your staff in good maintenance and repair practices, and encourage communication so that potential problems can be reported quickly.

Product purchases





Ecodesign your product by conducting comparative LCAs

Product purchases

The goal of ecodesign is to create products that are more environmentally friendly, energy-efficient, and resource-efficient, while still meeting functional and aesthetic requirements. This involves taking into account factors such as materials selection, energy consumption, waste generation, recyclability, and product lifespan.

Conducting life cycle assessments (LCAs) allows you to understand where most of the emissions come from in a product's design and avoid/reduce them while keeping up with your operational constraints.

Benchmark

The well-known denim and apparel company Levi's has used LCA to evaluate the environmental impact of their products. They conducted an LCA study to assess the water and energy footprint of their jeans and identified opportunities to reduce water consumption, energy use, and CO2 emissions in their manufacturing processes.

The multinational electronics company Philips has integrated LCA into their product development process. They use LCA to assess the environmental impacts of their products and identify areas for improvement. For example, they conducted LCAs for their LED light bulbs to optimize energy efficiency and reduce carbon emissions throughout the product's life cycle.

Estimated Impact

Highly variable depending on the action implemented and the product.

Estimated Cost

The cost of such a study highly depends on the product, its complexity, the available data, the expertise needed, and the level of detail.

It can go from a few thousand dollars to tens of thousand of dollars.

Recommended Service Providers

Greenly can perform dynamic comparative LCAs on your products and provide specific reduction recommendations.

Implementation

- 1** CHOOSE the products you want to assess based on the results of your GHG Assessment and your customer's sensitivity to sustainability issues.
- 2** PERFORM the LCA, and order reduction actions based on their potential impacts and their compatibility with the current product requirements and production methods.
- 3** IMPLEMENT the action and communicate to your customer the new design choices and their benefits.



Implement carbon impact conditions in your product purchase policy

Product purchases

Procuring products and services often contributes to a significant portion of a company's emissions, with supply chains accounting for over 80% in the consumer goods sector. To effectively address this issue, incorporating eco-conditions into your company's purchasing policy is a direct and efficient approach. Consider establishing requirements like the use of recycled materials and conducting a GHG assessment to ensure quantifiable environmental impact. These measures can be applied both with existing providers and during the contract awarding process.

Benchmark

In 2020, several companies joined forces to launch the 1.5°C Supply Chain Leaders with the Exponential Roadmap initiative. It involves management commitment to work with suppliers to halve their GHG emissions before 2030, establishing public targets, and supply chain GHG mapping and prioritization.

Livent emphasizes the monitoring and reduction of GHG emissions by its suppliers. As part of the pre-qualification process, Livent assesses suppliers' willingness and ability to meet their requirements through a questionnaire, and reviews answers periodically to ensure adherence.

Estimated Impact

Increased visibility into the carbon footprint of your suppliers and the ability to implement diverse eco-conditions within your purchasing policy can yield a significant impact on your scope 3 emissions in the long run.

Can serve as a catalyst to encourage other industries to embark on decarbonization efforts.

Estimated Cost

Variable depending on the resulting changes in the supply chain.

Recommended Service Providers

Greenly sustainable procurement module automates this process.

Implementation

- 1** ESTABLISH and start monitoring your KPIs (ex. percentage of suppliers that have completed a carbon footprint assessment, percentage of suppliers with a roadmap aligned to the goals of the Paris Agreement for 2030, ex. SBTi certification, etc)
- 2** Based on your goals and KPIs, IDENTIFY the eco-conditions you want to implement in your purchase policy. Clearly define them, ensuring they are specific, measurable, attainable, relevant, and time-bound (SMART).
- 3** SUPPORT and recognize suppliers' efforts. If possible, provide them tools, trainings, and resources to help them achieve the objectives. Follow and report suppliers' progress.

Buy recycled material – Iron

Product purchases

Buying recycled or second-hand material allows you to give those a second life. By doing that, you prevent the extraction/production of new raw materials which is usually a significant part of the impact throughout the value chain.

Benchmark

Dell : The computer technology company, has launched a program called 'Closed Loop Recycling' to recover plastics from recycled electronics. These plastics are then used to make new computers and other electronic products.

Estimated Impact

Up to 90% depending on the materials and the maturity of their current recycling chain (loss rates, energy inputs).

Estimated Cost

The cost of recycled materials compared to raw ones can be higher due to a limited supply. Price differences is dropping as the markets develop and recycling processes mature.

Recommended Service Providers

Get in touch with your current material providers or other local providers to scout for options.

Implementation

- 1** EVALUATE the raw materials used in your products. Take into account their volume, the associated emissions and the market sensitivity.
- 2** CONDUCT a study to see which materials you can replace according to your current operational constraints.
- 3** LOOK for sustainable suppliers that could supply you with the corresponding raw materials and meet your needs.

Optimize use of materials & reduce offcuts

Product purchases

The processes involved in manufacturing, modifying or assembling products can lead to the generation of waste, material offcuts and over-consumption of resources, all of which contribute to CO2e emissions. It is therefore essential to rethink these processes to minimize their impact on the environment. This can involve identifying more sustainable practices, such as using recycled or reclaimed materials, adopting more efficient technologies, or optimizing production flows.

Benchmark

Interface is a flooring manufacturer that has implemented a sustainable development strategy called "Mission Zero". Through initiatives focused on waste reduction and materials optimization, Interface has succeeded in significantly reducing its CO2e emissions while improving profitability. By rethinking its manufacturing processes, the company has succeeded in eliminating production waste and reducing the consumption of raw materials. See related article

Estimated Impact

The reduction in carbon impact can vary according to the extent of the changes made to design and manufacturing processes.

However, case studies have shown that this action can deliver significant reductions in CO2e emissions, typically ranging from 10% to 30%, and up to 90% with the Interface company case study.

Estimated Cost

The cost of implementing this action may also vary according to the size and complexity of the company. It is important to note that initial investments can be partly offset by the savings generated by this action.

Recommended Service Providers

Groupe Suez
Veolia
EcoDDS
Récylum

Implementation

- 1 **ANALYZE** current processes by identifying key stages, materials used and quantities, then find opportunities for improvement to optimize material use and reduce offcuts.
- 2 **DEVELOP** and implement solutions: draw up a detailed action plan defining concrete measures to be implemented, responsibilities and KPIs.
- 3 **MONITOR** and measure KPIs. Analyze data to assess the effectiveness of actions taken. Continuously improve design and manufacturing processes.

Freight



Use of non-road modes of transport – Rail freight

Freight

Improving the environmental performance of freight transport involves not only the intrinsic optimization of road transport, but also the use of other complementary modes such as rail, river and sea. Each mode of transport has its own strengths and weaknesses. Combining several of these modes can, in some cases, achieve a better balance between cost, service quality and environmental impact.

Benchmark

IKEA: IKEA strives to switch from road to rail or sea transport for its goods, which significantly reduces CO2 emissions.

Estimated Impact

According to an ADEME study:
Use of combined rail-road transport: 94%

Estimated Cost

Variable

Recommended Service Providers

Consult professional associations in the transport or logistics sector in your country. They may have lists of suppliers or recommendations.

Implementation

- 1 Analyze current modes of freight transport.
- 2 Explore non-road alternatives (rail, river, sea).
- 3 Adapt the mode of transport according to needs and environmental benefits.



Ensure optimal routing and loading of your trucks

Freight

Ensuring optimal routing allows for reducing of traveled distance for freight, therefore reducing the carbon emissions of fuel combustion. Further, the optimization in loading your truck can have a significant impact on your emissions, as the truck also has to transport its own weight. Avoiding empty returns and making sure to load the truck at its maximal capacity are thus also important criteria to take into account. This can be facilitated by the mutualization of freight services between services, and the lengthening of delivery periods (empowered by differentiated pricing or new agreements between you and your clients).

Benchmark

IKEA, the furniture retailer, has implemented routing and loading optimization measures to reduce carbon emissions in their delivery operations. They use advanced routing algorithms and loading optimization techniques to minimize the number of trips, maximize truck capacity, and reduce fuel consumption.

Estimated Impact

Typically, 25% to 30% of reduction in emissions. However, this depends highly on the initial loading rates and routings.

Estimated Cost

Reduction in average cost of freight of 10%.

Recommended Service Providers

Get in touch with your current freight providers to learn about what they can offer.

Implementation

- 1** IMPLEMENT advanced route planning software to optimize delivery routes based on factors like distance, traffic, and fuel efficiency.
- 2** OPTIMIZE load consolidation techniques to maximize the use of available space in the truck, minimizing empty space and reducing the number of trips required.
- 3** COLLECT and analyze data on fuel consumption, delivery times, and vehicle performance to identify areas for improvement and continuously optimize your routing and loading processes.

Raise awareness among road subcontractors

Freight

The aim of this action is twofold: to provide road subcontractors with the information, tools and methods that will enable them to reduce their fuel consumption and CO2 emissions on a long-term basis. Reduce the overall CO2 emissions of subcontracted services, in order to improve the company's overall environmental performance vis-à-vis its customers (particularly with a view to CO2 labelling of transport services).

Benchmark

Apple: Apple works closely with its suppliers and subcontractors to ensure compliance with environmental standards, including the reduction of emissions when transporting components.

Estimated Impact

According to an ADEME study:
Inform subcontractors about best practices: 1% to 2%.

Estimated Cost

Variable

Recommended Service Providers

Consult professional associations in the transport or logistics sector in your country. They may have lists of suppliers or recommendations.

Implementation

- 1 Identify current road subcontractors and their practices.
- 2 Organize workshops to educate on best practices and available tools.
- 3 Monitor and evaluate progress to ensure emissions reduction.

Energy





Implement an energy savings program

Energy

Quick and without major investments, actions such as turning off lighting during periods of closure and improving lighting efficiency by deploying LED or low-energy lighting, as well as presence-based management, will allow for an immediate reduction of your electricity consumption and expenditure.

Benchmark

IKEA implemented a comprehensive lighting efficiency program in stores and distribution centers, including the use of LEDs, motion sensors, and daylight harvesting to reduce energy consumption and improve the shopping experience for customers. Hilton implemented both a lighting control system in hotels that automatically turns off lights in unoccupied rooms and LED lighting throughout their properties to reduce energy use.

Estimated Impact

Lighting represents on av. 20% of the energy consumption of a typical office building.
Turning-off lighting: impact equivalent to the % reduction in lighting time.
Deploying LEDs: 50-70% emission reduction compared to traditional lighting technos.

Estimated Cost

Average of 5 \$ per LED light bulb, save 10 \$ per LED light bulb per year, as savings typically outweigh investment costs (lower electricity bills). Presence-based light management: price can range between 100 to several K\$ depending on space covered. Energy savings help mitigating costs after a few years.

Implementation

- 1** CONDUCT an energy audit of the lighting system to quantify energy usage and areas for improvements / potential savings
- 2** DEVELOP a lighting plan and KPIs such as Lighting hours per day and Number of LED lights / Total lights
- 3** IMPLEMENT the plan and follow the KPIs as well as the returns on investment



Implement an energy management system

Energy

An EMS is a software-based system used to monitor and control energy consumption within a real estate property. It can be used to track energy inefficiencies and increases in energy consumption.

Benchmark

Walmart uses an Energy Management System in all its store to reduce its consumption.

Estimated Impact

At company level, the implementation of environmental management system (EMS) help to save 90% of energy consumption, reduce 63% of C&D waste and reduce 70% of water consumption.

Estimated Cost

In North America, the cost of implement an EMS is between \$30,000-\$60,000 the first year but reduces consequently the following years.

Implementation

- 1** IDENTIFY specific energy monitoring and tracking needs.
- 2** COMPARE different EMS.
- 3** MONITOR consumption throughout the year and implement energy saving solutions.



Conclusion

Conclusion

The GHG assessment made it possible to identify st screening technologies GmbH's main GHG emission sources so as to frame the company's carbon strategy and identify the items that need to be studied in greater depth with the aim of continuously improving the company's environmental impact.

It has been established that direct emissions (Scope 1) and energy-related indirect emissions (Scope 2) represent a small part of a company's impact. It is therefore essential to mobilize our company's suppliers and employees.

To meet the 2015 Paris Agreement target of a 50% reduction in GHG emissions between 2020 and 2030, we need to achieve a 5.9% reduction in emissions within one year (-3 tCO₂e).

The recommended next steps in st screening technologies GmbH's carbon strategy are:

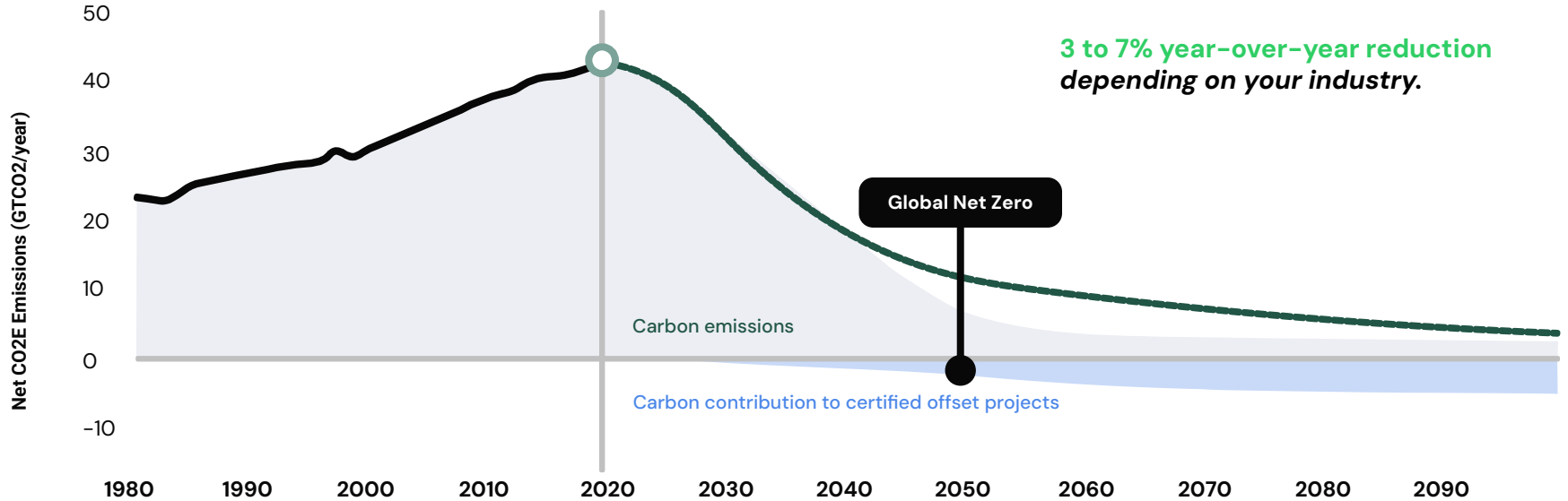
- 1 **Study key emission sources in greater depth**, if you opt for that. Your Climate Expert can help you decide between the different options available!
- 2 **Establish GHG emission reduction targets and implement an action plan** in order to achieve these targets.
- 3 **Engage your suppliers** using the Greenly supplier engagement tool.
- 4 **Engage your employees** using the interactive Greenly training quizzes.
- 5 **Communicate with your stakeholders** about your commitment and carbon footprint, your reduction targets and the action plan considered.
- 6 **Contribute to certified GHG reduction / sequestration projects** available on the Greenly platform.



What's next?

Committing to a multi-year decarbonization strategy

A SUSTAINED EMISSIONS REDUCTION BASED ON THE LEVELS REQUIRED BY THE PARIS AGREEMENT



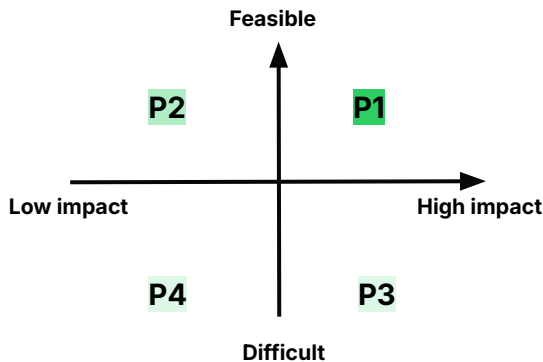
How can I build my reduction trajectory?

THE 4 KEY STAGES IN DEFINING AND FOLLOWING YOUR TRAJECTORY

Refine your greenhouse gas emissions assessment

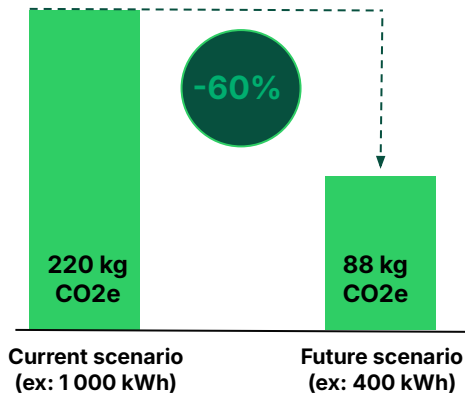
Your 2023 assessment is based on **74%** of physical data, the rest being financial data. We recommend that you regularly improve the accuracy of your greenhouse gas assessment by adding more physical data. You will be able to quantify and monitor your reductions with precise targets in km, kg, kWh, etc.

Prioritize your actions



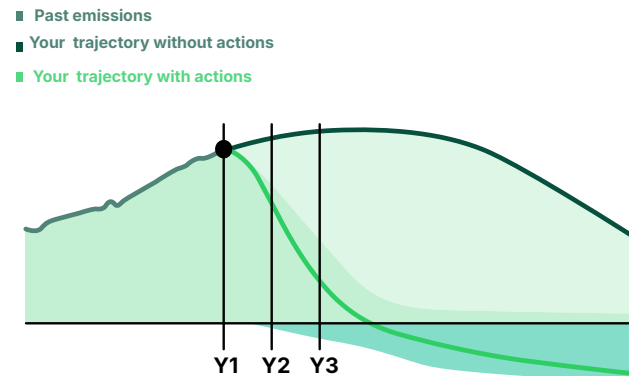
Place your actions on the matrix after identifying operational constraints in consultation with your teams.

Calculate their reduction potential



Select the right KPIs before you start, then calculate the reduction potential.

Monitor your results



Monitor your progress regularly and measure your results during your annual GHG assessment.

The 5 Pillars of a Climate Strategy

DISCOVER THE 5 PILLARS BASED ON THE NET ZERO INITIATIVE

1. Measure

- Track emissions annually
- Go deeper in the analysis of your main emission sources

 [Carbon data analysis](#)

 [CSR D](#)

 [LCA](#)


2. Reduce


- Choose an action plan in line with the Paris Agreement
- Quantify your action plan to build a carbon trajectory

 [Action Plan Tab](#)

3. Educate

- Engage your suppliers in your strategy
- Train your employees

 [Supplier engagement](#)

 [Employee training](#)

4. Commit

- Commit to an objective
- Communicate transparently

 [Communication kit](#)

5. Contribute

- Contribute in carbon sequestration & avoidance projects to cover non compressive emissions

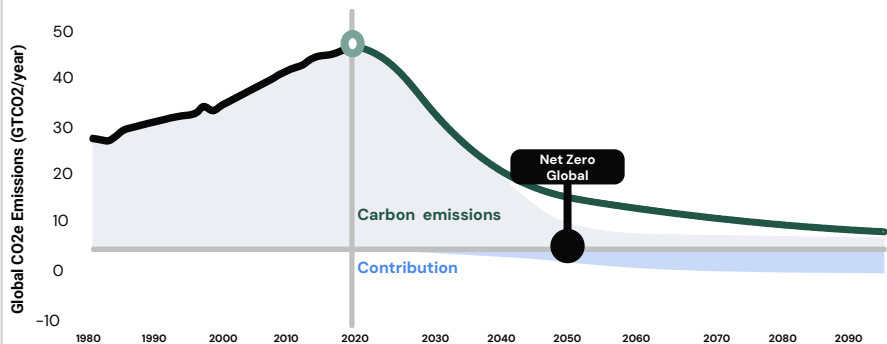
 [Carbon contribution](#)

Commit to a Multi-year Carbon Trajectory

A LONG-TERM REDUCTION IN EMISSIONS IN LINE WITH THE OBJECTIVES OF THE PARIS AGREEMENT OR YOUR PERSONAL OBJECTIVES

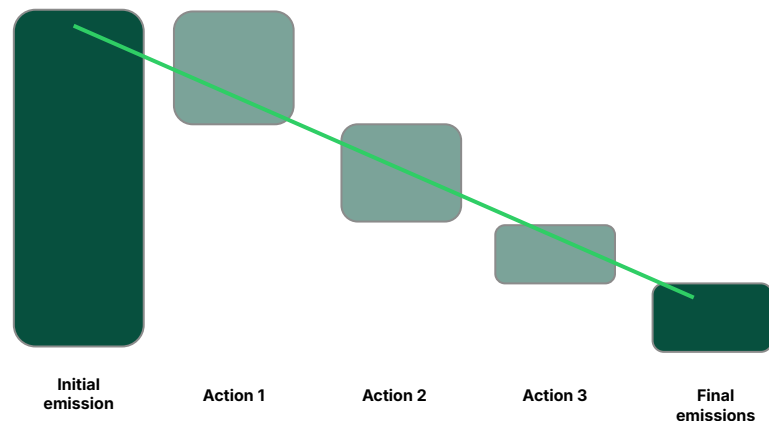
Paris Agreement Objective

-3% to -7% reduction annually



Objective Based on your Actions

Define your reduction objective based on facilitating actions



Build Your Carbon Reduction Trajectory

3 KEY STEPS TO BUILD YOUR TRAJECTORY

Prioritize your actions

Calculate their reduction potential

Optimize your trajectory

1

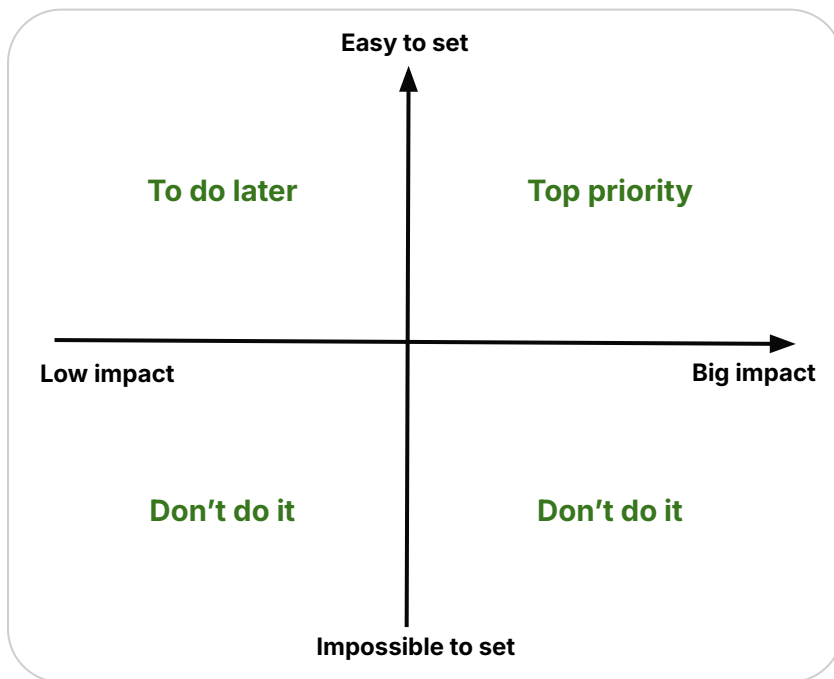
Bring together the stakeholders in your climate strategy

2

Place the action suggestions from the Greenly report on the matrix after identifying their constraints

3

Keep all feasible actions and prioritize those with the greatest impact



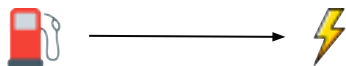
Build Your Carbon Reduction Trajectory

3 KEY STEPS TO BUILD YOUR TRAJECTORY

Prioritize your actions

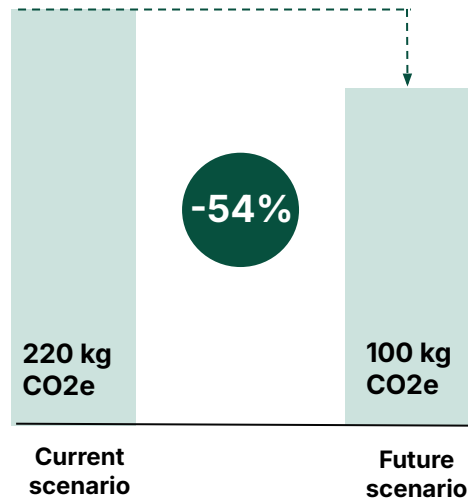
Calculate their reduction potential

Optimize your trajectory



Current scenario	1,000 km per year with thermal cars	1,000 km per year with electric cars	Future scenario
Emission Factor	0.22 kg CO2e/km	0.1 kg CO2e/km	Emission Factor
Total Emissions	220 kg CO2e	100 kg CO2e	Total Emissions

 Potential reduction



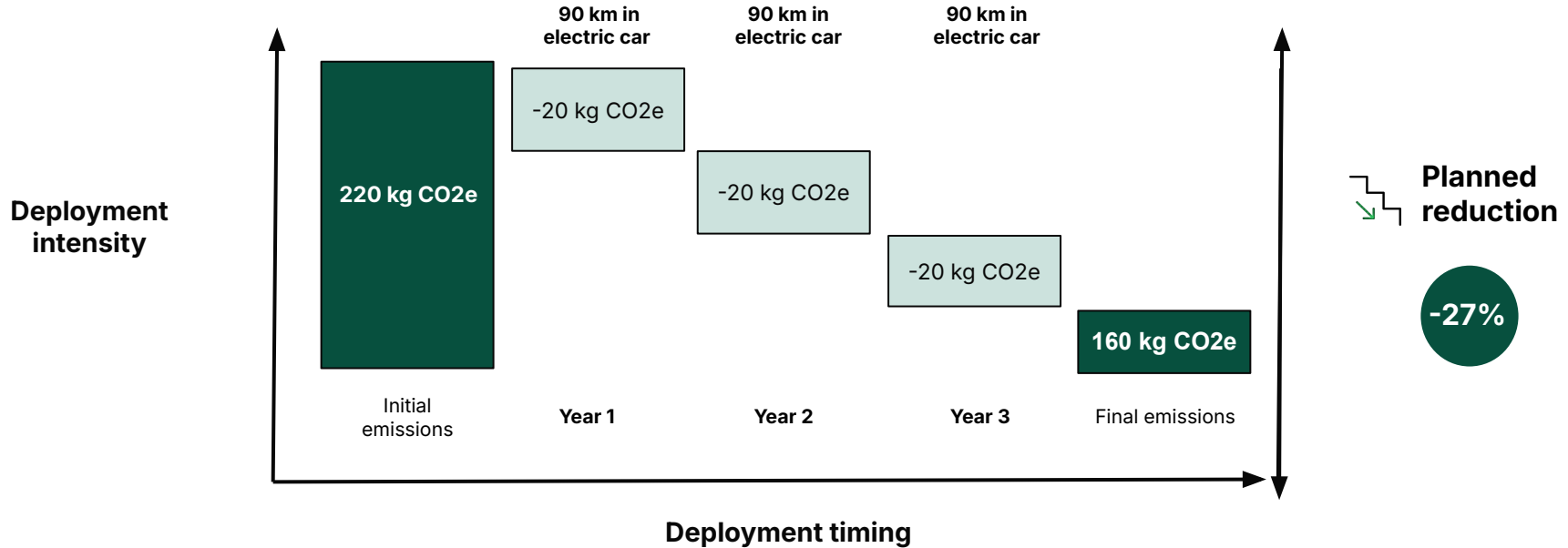
Build Your Carbon Reduction Trajectory

3 KEY STEPS TO BUILD YOUR TRAJECTORY

Prioritize your actions

Calculate their reduction potential

Optimize your trajectory



| Greenly's communication support to highlight commitment

Company & Personal Certificates



Social Networks



PR

Communicate on media



Customer Video Testimonials

Testimonials showcasing the work done with Greenly



Premium

Join our community: ESG Connect

Slack Channel, afterwork, Events, Webinars

350k
Members
As of August 2023

10+
Countries
including USA, UK,
France, Australia etc.

Case studies



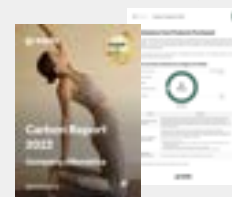
Webinar

Communicate on your results in a Webinar with a Greenly expert!



Extended Report

Get your report formatted by our marketing team

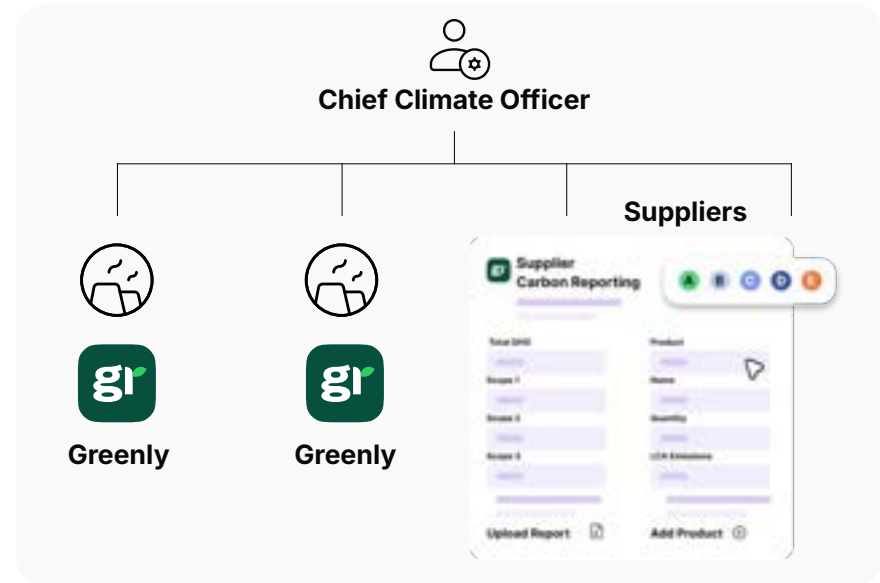
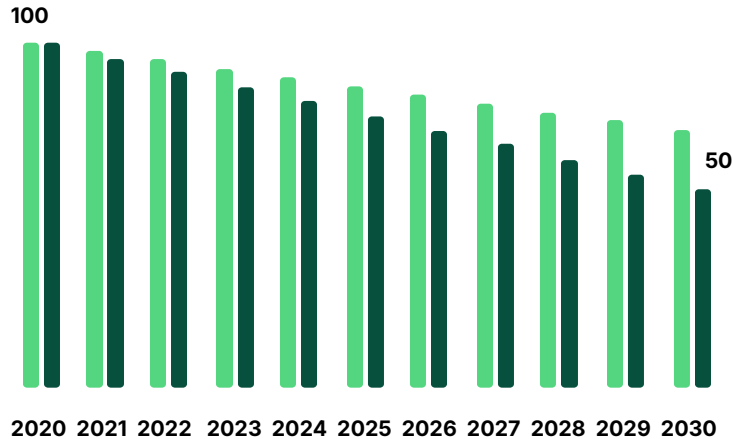


Engaging suppliers to align with the company's Net Zero targets

ENGAGE SUPPLY CHAIN VIA A DEDICATED SUSTAINABLE PROCUREMENT STRATEGY



Reduction Trajectory Science Based Targets Aligned with 1.5°C & Well below 2.0°C



Maturity of climate strategy

YOUR GREENLY CLIMATE SCORE

Greenly score criteria



Pioneers in the climate transition

< 1% of companies (Score ≥ 75)



Responsible companies

5% of companies (Score 55 - 74)



Building a company in transition

15% of companies (Score 30 - 54)



Beginners committed to the transition

30% of companies (Score 5 - 29)

Enthusiasts to awaken

10% of companies (Score 0 - 4)

Lack of interest in the climate

40% of companies

The statistics are drawn from the Greenly supplier and customer database, which includes several thousand companies of all sizes, sectors and geographies. For more similar statistics, consult the CDP corporate climate tracker.



The intermediate Greenly Climate Score of **st screening technologies GmbH** is **41 points**

Points are distributed as follows:

Creating & fine-tuning the Greenhouse Gas report: **34/40**

Action plans: **4/36**

Climate targets: **0/4**

Involving your teams: **3/10**

Carbon contributions: **0/10**

The Score will be updated at the Climate Strategy follow-up meeting.

More information on the Score calculation method [here](#)

Statistics were computed on the Greenly supplier database

Engaging employees on Climate Change

OUR MONTHLY TRAININGS



Month 1

Month 2

Month 3

Month 4

Month 5

Month 6

Month 7

Month 12

Onboarding

Quiz 1
Climate
Science

Quiz 2
IT

Quiz 3
Food

Quiz 4
Transport

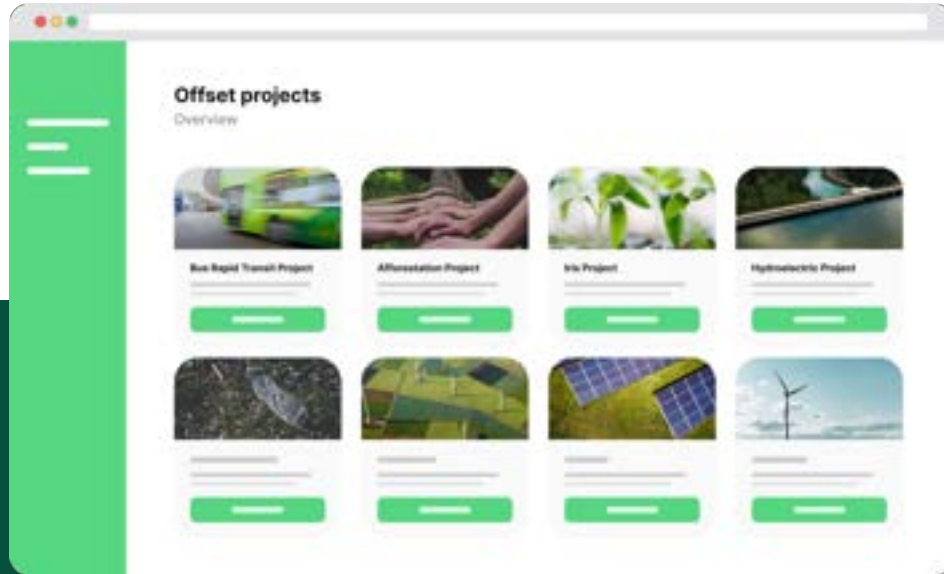
Quiz 5
Energy

And more..

A look back
on the year

Net Zero Contribution – What to Expect

SOURCING ONLY VERIFIED & CERTIFIED PROJECTS



Ensure projects are certified

We source projects that meet criteria of additionality, permanence, auditability and measurability

Contribute to Net Zero

Ensure you are responsible for more emissions capture that what your organization is emitting

LABEL BAS
CARBONE

r:verse

Gold Standard

screening
technologies

greenly

Become a Referral Partner

Refer customers to Greenly and use your commissions to reduce the cost of your future GHG reports.

~~10%~~ **15%**
Commission or partner discounts directly more advantageous for Greenly customers.



COMMUNICATE

Leverage our resources to communicate to your network



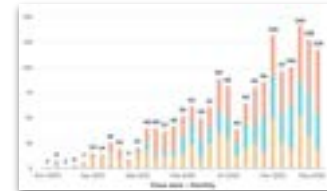
REFER LEADS

Send leads to the Greenly Sales Team



EARN REVENUE

Receive quarterly payments for your business and amortize the cost of your future reports





About Greenly

| The Greenly Vision

MAKING CARBON ANALYTICS UNIVERSAL



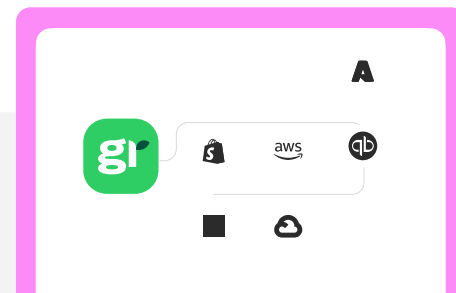
CARBON FOOTPRINT APP & API

First carbon fintech app
launched



CARBON ACCOUNTING SOFTWARE

Launch B2B SaaS for SME Carbon
Footprint (GHG Protocol)



CLIMATE APP STORE

Introducing the first Climate
App Store in 2023

Building up a global tech leader to scale carbon accounting

FOUNDER VISION: HELPING ALL COMPANIES START THEIR CLIMATE JOURNEY TO FAST-TRACK THE ENERGY TRANSITION



Arnaud Delubac
CMO & Co-Founder

INSEEC, Essec - Centrale
Digital Comm at Prime Minister
Office, & Ministry of Digital



2018-2019



Alexis Normand
CEO & Co-Founder

HEC, Sciences-Po
Ex Head of B2B & Boston
Office at Withings, Techstar
w/Embleema

withings 2013-2018



Matthieu Vegreville
CTO & Co-Founder

Ecole Polytechnique -
Telecom
Ex Data Science
& B2B SaaS at Withings

techstars_ 2018-2019

Everyone should strive to achieve Net-Zero, not just the elite.
Consumers want all companies to implement sustainable changes

Greenly is instigating a bottom-up climate revolution making it simple for all companies & employees to start their climate journey

Working with our initial 1,000 customers, we see that early adoption of carbon initiatives boosts growth and profitability, while helping companies start their climate journey

As regulations make carbon disclosure mandatory, Greenly is building highly-scalable tech to address the enormous influx of mid-market businesses joining the energy transition.

Greenly's product-led growth rests on three pillars: 1- a tech-enabled end-to-end carbon platform ; 2- an outstanding UX to cultivate a growing community of climate leaders: 3- Lastly, a global ecosystem of partners who leverage Greenly to scale carbon accounting over their network.

Greenly is the world's fastest growing carbon management platform

WE ARE SCALING OUR TECH, OUR CUSTOMERS BASE & CLIMATE TEAM

150+

Team with Climate Experts Data Scientists, Data analysts, Data Engineers, DevOps Engineers

1000+

Customers in Tech, Industry, Energy, Logistics, Construction, Real Estate etc.

50k

Emissions sources aggregated from customers & industry databases

10+

Geographies covered with customers in the US, UK, France, Italy, Germany, Nordics...

These companies are tracking their carbon footprint with Greenly

Industries

faurecia  RENAULT  Schlumberger

Tech

alma  TripAdvisor  Korbi

Retail

 COURIR   Pernod Ricard

Services

ACCOR  Kea  econocom

Finance

COATUE  Shell Ventures  EIFFEL  DNP PARIBAS

Scientific council

INDUSTRY, AI & EXPERTS CLIMAT



**Pr. Michel
BAUER**

Sociologist
HEC
–
Corporate
organisation



**Nicolas
HOUDANT**

CEO
Énergies demain
Ex
GreenNext



**Peter
FOXPENNER**

Professor
BU University
–
Electricity grids
& Carbon expert



**Pr. Yann
LEROY**

Professeur
Centrale-Supelec
–
Carbon Product
Life-Cycle



**Pr. Antoine
DECHEZLEPRÊTRE**

Professeur
LSE
–
Climate change
policies



**Pr. Rodolphe
DURAND**

Professeur
HEC
–
Corporation
transformation



Appendix

Disclaimer

These quality controls were not automatically passed by the current carbon footprint. However, st screening technologies GmbH reviewed them and decided to carry on with the generation of the carbon footprint. You can see the full detail on [the platform](#).

Greenly expert requested changes	Quality check name	Justification
No	No sub-category should exceed 10% of total emissions	These are really 2 of the highest emission factors!
No	Ensure the accuracy of your top 5 emission sources	

Scope 1&2



Scope	Name	tCO2e	
1.1	Generation of electricity, heat or steam	0.004	
1.2	Transportation of materials, products, waste, and employees	8	
1.3	Physical or chemical processing	-	EXCLUDED : Category is not relevant for the company
1.4	Fugitive emissions	0	
2.1	Electricity related indirect emissions	0.6	
2.2	Steam, heat and cooling related indirect emissions	0.9	

To see more details of the methodology for each regulatory entry please visit [Greenly!](#)

Scope 3

100% accounted



Scope	Name	tCO2e	
3.1	Purchased goods and services	19	
3.2	Capital goods	18	
3.3	Fuel- and energy- related activities not included in Scope 1 or Scope 2	0.9	
3.4	Upstream transportation and distribution	5	
3.5	Waste generated in operations	1	
3.6	Business travel	0.7	
3.7	Employee commuting	0.3	
3.8	Upstream leased assets	-	EXCLUDED : Category is not relevant for the company
3.9	Downstream transportation and distribution	-	EXCLUDED : Category is not relevant for the company
3.10	Processing of sold products	-	EXCLUDED : Category is not relevant for the company
3.11	Use of sold products	0	
3.12	End-of-life treatment of sold products	1	
3.13	Downstream leased assets	-	EXCLUDED : Category is not relevant for the company
3.14	Franchises	-	EXCLUDED : Category is not relevant for the company
3.15	Investments	-	EXCLUDED : Category is not relevant for the company
4.1	Other emissions - Emissions from biomass (soil and forests)	0	

Scope 1&2



Scope	tCO2e	tCO2b	CO2f*	CH4f*	CH4b*	N2O*	Other GHGs*
1.1	0.004	0	0.003	0.0003	0.00009	0.0008	0
1.2	8	0	5	0.5	0.2	2	0
1.3	-	-	-	-	-	-	-
1.4	0	0	0	0	0	0	0
2.1	0.6	0	0.5	0.03	0.03	0.03	0
2.2	0.9	0	0.8	0.05	0.05	0.04	0

* Results expressed in tons of CO2e

Scope 3



Scope	tCO2e	tCO2b	CO2f*	CH4f*	CH4b*	N2O*	Other GHGs*
3.1	19	0	16	2	0	0.6	0.2
3.2	18	0	18	0	0	0	0
3.3	0.9	0	0.8	0.07	0.04	0.05	0
3.4	5	0	4	0.3	0	0.3	0
3.5	1	0	0.8	0.08	0	0.2	0
3.6	0.7	0	0.6	0.05	0	0.05	0
3.7	0.3	0	0.3	0.0001	0	0.003	0
3.8	-	-	-	-	-	-	-
3.9	-	-	-	-	-	-	-
3.10	-	-	-	-	-	-	-
3.11	0	0	0	0	0	0	0
3.12	1	0	0.9	0.1	0	0.2	0
3.13	-	-	-	-	-	-	-
3.14	-	-	-	-	-	-	-
3.15	-	-	-	-	-	-	-
4.1	0	0	0	0	0	0	0

* Results expressed in tons of CO2e

The logo for Greenly, featuring the word "greenly" in a lowercase, sans-serif font. The letter "e" is highlighted in a vibrant green color, while the remaining letters are white.

Contact us

support@greenly.earth

www.greenly.earth