



Year 2023

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# GHG emissions report

## Prenax



20/12/2024

# Foreword

Congratulations on pursuing your climate journey. Greenly is proud to contribute to Prenax'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', written in a cursive style.

# Overview

1

## Introduction

- Carbon accounting methodology
- GHG emissions assessment parameters
- Executive summary

2

## Emissions report

- Results by scope
- Results by activity
- Focus by activity

3

## Focus on action plans

- Estimated impact
- Estimated costs
- Implementation step by step

4

## Conclusion – What's next?

- Summary of reduction actions
- Next steps

5

## About Greenly

- Our vision & team

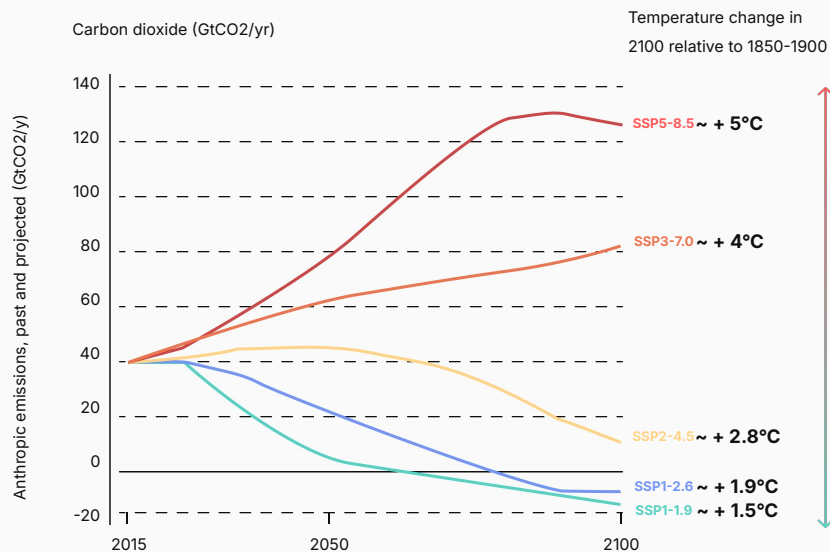
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## Appendix

- 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.



Source: Carbone 4

## 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



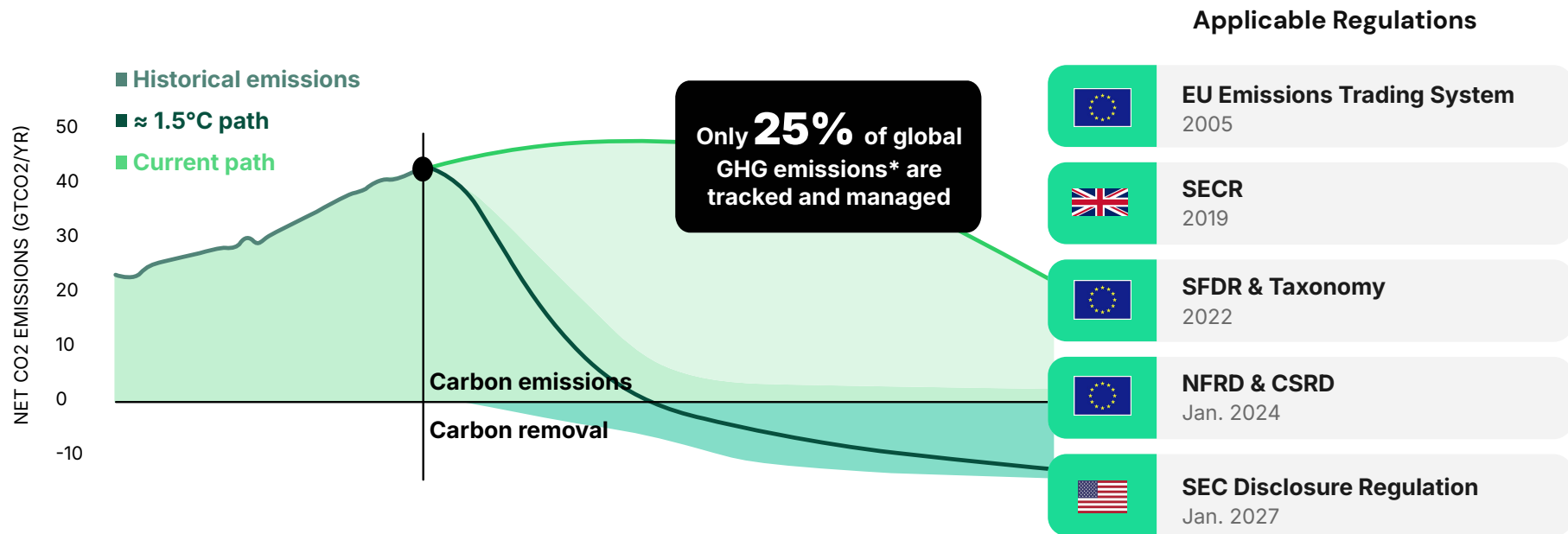
Shifting employee mindsets and expectations regarding the environmental reputation of their employer

## 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

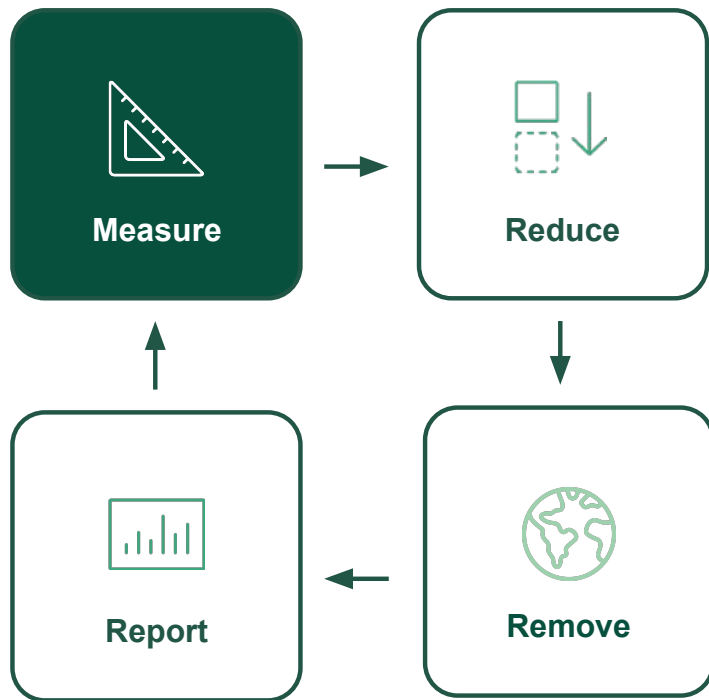
REACHING PLANETARY DECARBONIZATION GOALS IMPLIES THAT ALL BUSINESSES TRACK THEIR EMISSIONS, REGULATIONS ARE KICKING IN



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

32% of your emissions of 2023 are calculated using activity data

Expense  
based

Increasing  
Accuracy\*

Activity  
based

Activity metrics x Emissions factors = CO2 Eq. Emissions



**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



exiobase



Fraunhofer



JOINT RESEARCH CENTRE

European  
Commission



Department for  
Business, Energy  
& Industrial Strategy



# | GHG emissions assessment scopes

## Entity

Prenax  
From May 2023 to April 20231

–

## Primary data

Accounting data  
Employee survey  
Buildings data

## 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

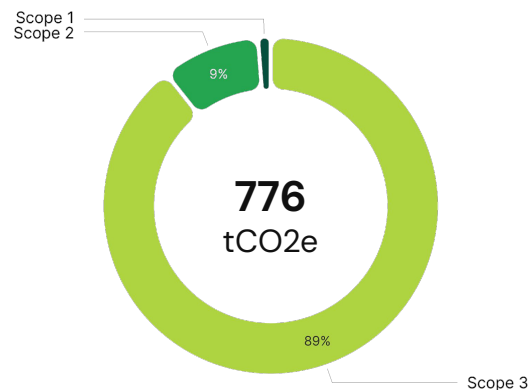
# Executive summary

This report summarizes the results of Prenax'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	9.5tCO <sub>2</sub> e	< 0.1t/employee	< 0.1t/M€
Scope 2	73tCO <sub>2</sub> e	0.3t/employee	0.3t/M€
Scope 3	693tCO <sub>2</sub> e	2.9t/employee	2.5t/M€
<b>Total</b>	<b>776tCO<sub>2</sub>e</b>	<b>3.3t/employee</b>	<b>2.8t/M€</b>



Results subject to the correct categorization and validation of expenses of Prenax.

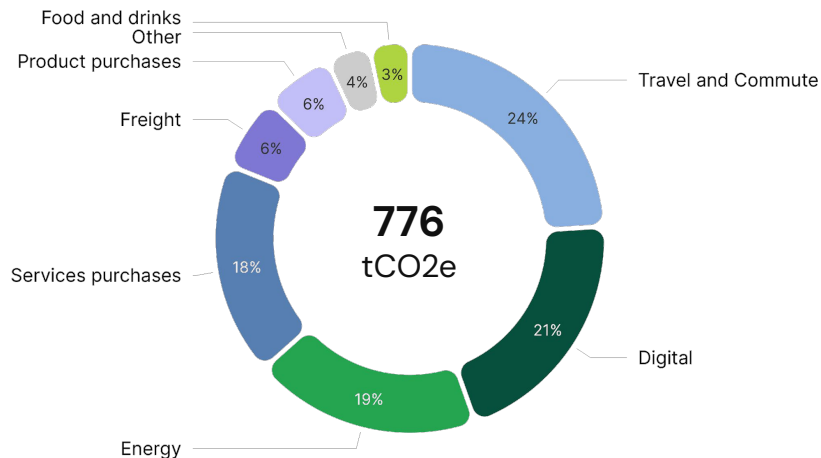


# Emissions Report

# General overview

## RESULTS BY ACTIVITY

Total emissions of Prenax,  
by activity (% tCO<sub>2</sub>e)



Is equivalent to:



The amount of CO<sub>2</sub>  
sequestered annually by  
71 hectares of growing  
forest\*



The annual emissions  
of 82 French  
Residents\*



430 Paris - New York  
round trips\*

	Absolute tCO <sub>2</sub> e	Per employee tCO <sub>2</sub> e/employee
Travel and Commute	186	0.8
Digital	159	0.7
Energy	147	0.6
Services purchases	137	0.6
Freight	48	0.2
Product purchases	45	0.2
Others**	54	0.2

\*Sources: Labos1Point5, ExioBase, French National Forests Office

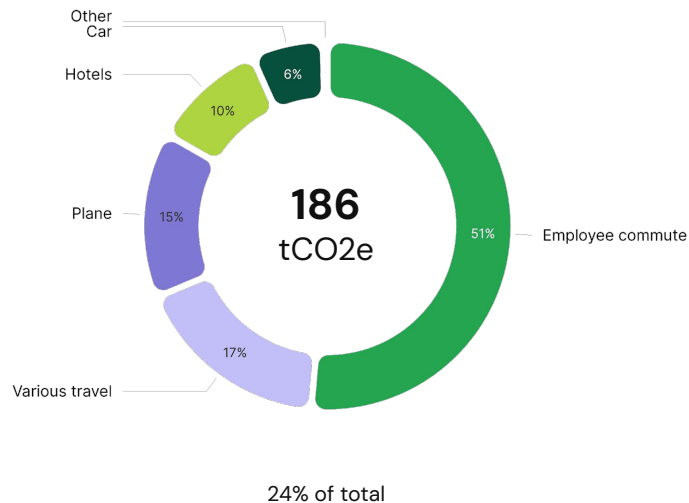
\*\*Food and drinks, Activities and events, Waste,  
Assets

# Focus on Travel and Commute

Activity data  
96 tCO<sub>2</sub>e (51%)

Expense data  
91 tCO<sub>2</sub>e (49%)

Travel and Commute emissions by category  
(% tCO<sub>2</sub>e)



## What is included in this category?

CO<sub>2</sub> 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:

- Renew your gas vehicle fleet with electric vehicles
- Replace part of your business travel with video conferencing
- Favor flights in economy

See additional best practices in the action plans section

## Methodology

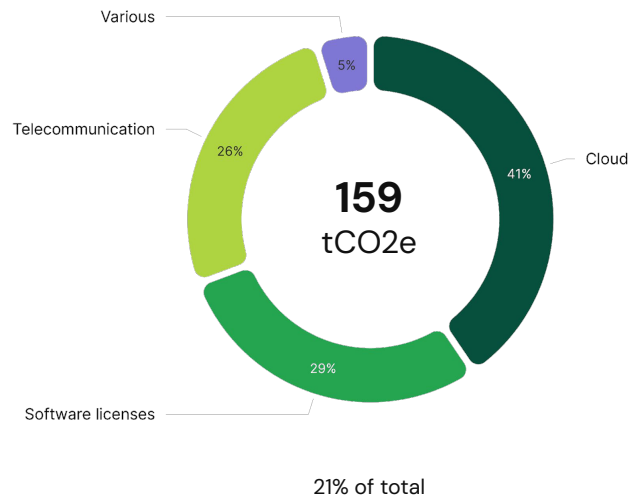
1. Emissions calculated using activity and expense data, by multiplying a quantity by an emission factor.
2. The emission factors used for this category come from the following databases: Exiobase 3.8.1, Greenly 1.0, Uk GHG Conversion Factor 2024
3. Details of the methodology used to calculate each carbon footprint source are available on the Greenly platform.

# Focus on Digital

Activity data  
0 tCO<sub>2</sub>e (0%)

Expense data  
159 tCO<sub>2</sub>e (100%)

## Digital emissions by category (% tCO<sub>2</sub>e)



### What is included in this category?

CO<sub>2</sub> emissions from digital activities, covering internet use, data storage, and cloud computing. Includes emissions from data centers, servers, and network infrastructure.



### How to reduce the impact of this category?

You can adopt the following measures:

- Host your data in countries with low-carbon electricity

## 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: Base Empreinte Ademe 23.2, Company Report 1.0, Exiobase 3.8.1, Greenly 1.0
3. Details of the methodology used to calculate each carbon footprint source are available on the Greenly platform.

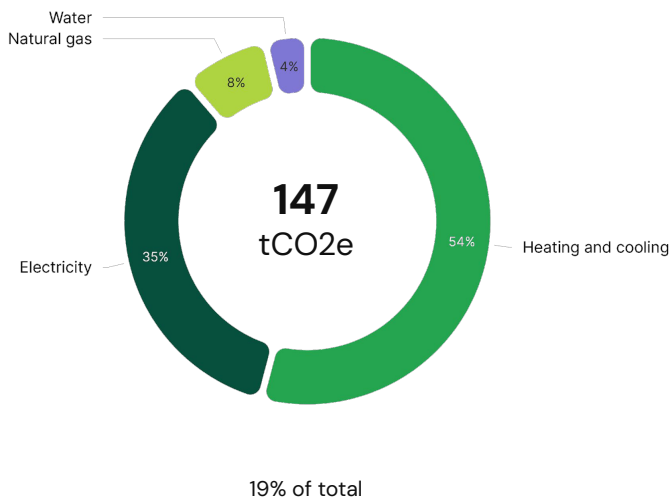


# Focus on Energy

**Activity data**  
141 tCO<sub>2</sub>e (96%)

**Expense data**  
5.4 tCO<sub>2</sub>e (4%)

## Energy emissions by category (% tCO<sub>2</sub>e)



### What is included in this category?

CO<sub>2</sub> emissions from energy production and consumption, covering fossil fuels and renewables. Varies by energy source type, efficiency, and carbon intensity.



### How to reduce the impact of this category?

You can adopt the following measures:

- Implement energy saving trainings
- Turn off the lights at night
- Implement an energy savings program

See additional best practices in the action plans section

## Methodology

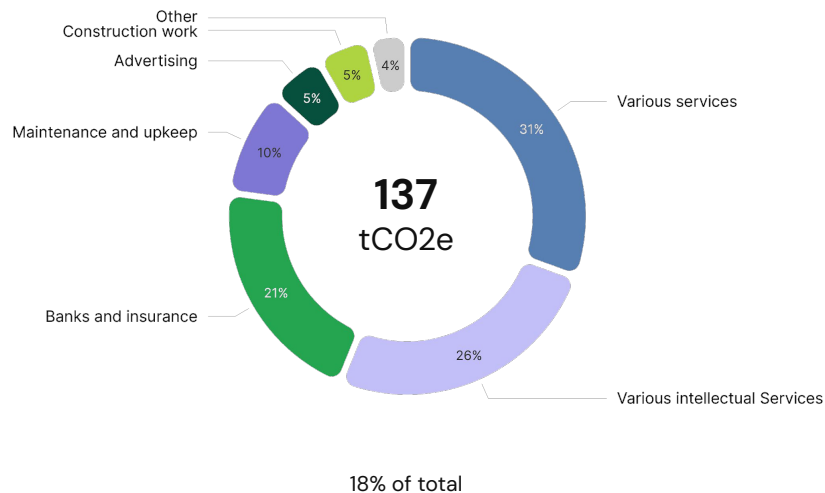
1. Emissions calculated using activity and expense data, by multiplying a quantity by an emission factor.
2. The emission factors used for this category come from the following databases: Base Empreinte Ademe 23.1, Base Empreinte Ademe 23.2, eGRID 2022, Electricity Maps 2022, Exiobase 3.8.1, Greenly 1.0, IEA 2023, 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 Services purchases

Activity data  
0 tCO2e (0%)

Expense data  
137 tCO2e (100%)

Services purchases emissions by category  
(% tCO2e)



## What is included in this category?

CO2 emissions from service purchases, covering professional services. Primarily from upstream energy/material use and energy consumed during service provision.



## How to reduce the impact of this category?

You can adopt the following measures:

- Implement carbon impact conditions in your service purchase policy

## 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: Base Empreinte Ademe 23.1, Base Empreinte Ademe 23.2, Company Report 1.0, Exiobase 3.8.1, Greenly 1.0, Greenly 3.8.1
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

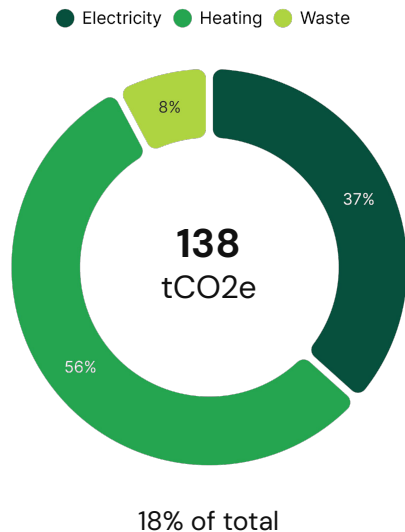
### Activity emissions

37 tCO<sub>2</sub>e (27%)

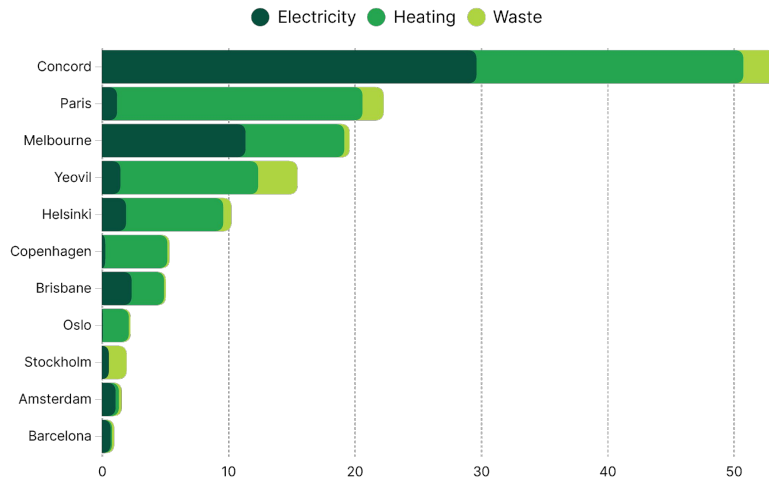
### Estimated emissions

101 tCO<sub>2</sub>e (73%)

Total Emissions per Category (tCO<sub>2</sub>e)



Total Emissions per Building (tCO<sub>2</sub>e)



## Methodology

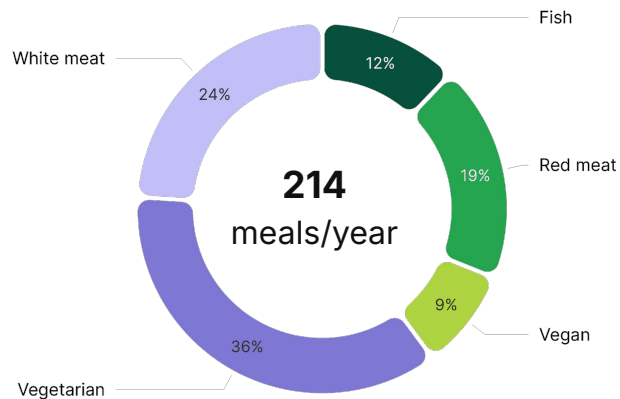
1. Emissions linked to heating and energy use are calculated by multiplying (where available) the building's electricity or gas consumption by an emission factor. Failing this, an estimate is calculated on the basis of building surface area, or even the number of employees when surface area is not provided.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



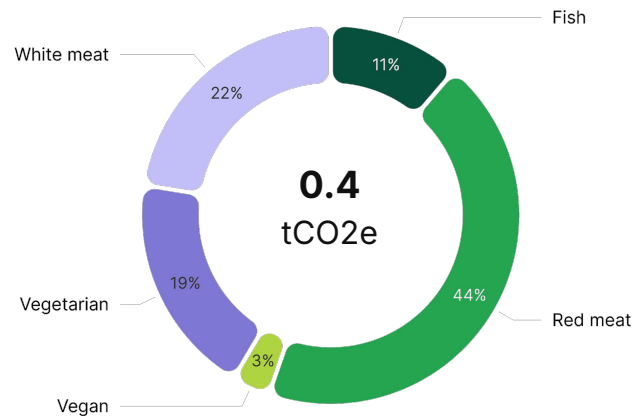
# Focus on Employees

# 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 95% response from your employees to whom the questionnaire was sent (144 responses).

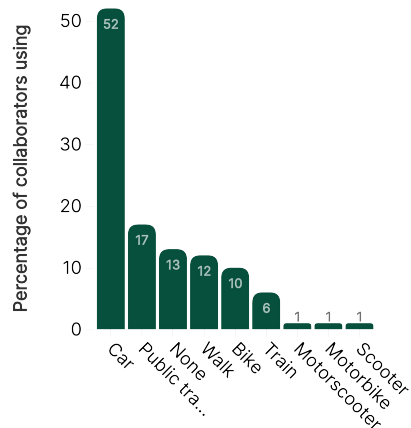
The data used to calculate meals-related emissions are from the French Agency for Ecological Transition (ADEME).

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

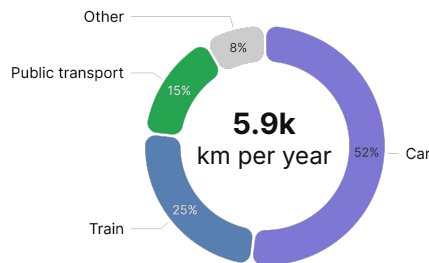


# | Focus on Employee Commute

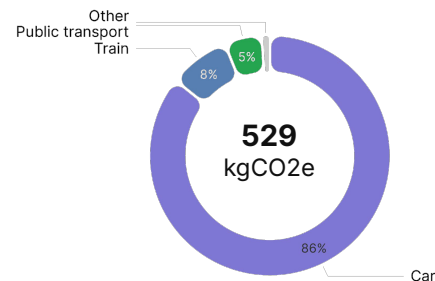
Usage of transport modes



Yearly mean distance distribution



GHG emissions (kgCO<sub>2</sub>e / employee)



On average, your employees travel 5.9k kilometers each year, emitting 529 kgCO<sub>2</sub>e for home-work commuting.

## | Methodology

Analysis is based on the employee survey, which obtained a 95% response from your employees to whom the questionnaire was sent (144 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

# I Action(s) already put in place

Name ▲	Initial situation	Final situation ▲	Status
Choose packaging made from recycled raw materials	No company policy in place	After implementing environmental policy and engaging all offices, creating Green teams we are converting and reviewing current suppliers.	In progress
Favor flights in economy	We already had a policy stating only economy travels allowed.	We have a travel policy that restricts the booking of business class flights.	Already put in place
Host your data in countries with low-carbon electricity	This has been done since 2020	We have done this by selecting a provider of Green servers.	Already put in place
Implement an energy savings program	No company policy in place	After implementing environmental policy and engaging all offices, creating Green teams we have accomplished this.	Already put in place
Implement energy saving trainings	No training in place before environmental policy.	After implementing environmental policy in 2022 and engaging all offices, creating Green teams	Already put in place

# | 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?



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.

# Travel and Commute



# Favor flights in economy

## Travel

*The carbon footprint per passenger of a flight increases when the occupancy rate of the plane decreases. The larger the seat, the more space it takes up in the aircraft cabin, contributing to a decrease in the number of passengers allowed on a plane. Additionally, direct flights emit less carbon than flights with stopovers because they don't require the plane to take off and land multiple times.*

### Benchmark

The sustainable travel policy of the United Nations outlines sustainable travel measures for their employees, including choosing the most direct route with no stop-over and systematically choosing economy class for employees for trips of less than 9 hours.

### Estimated Impact

Reduction of emissions by a factor of 3 when traveling in economy rather than business class, and by a factor of 6 when traveling in economy rather than in first class.

### Estimated Cost

This action plan only results in cost savings as economy class tickets are less expensive.

### Implementation

- 1** DEVELOP a Sustainable Travel Policy in which you include guidelines and criteria for employees to travel in economy class.
- 2** PROMOTE awareness and employee engagement on the importance of sustainable travel and the rationale behind favoring economy class travel.
- 3** ESTABLISH and monitor your KPIs (example: Economy class travel rate, GHG emissions per employee or per kilometer traveled).



# Renew your gas vehicle fleet with electric vehicles

## Travel

*Even though the manufacturing of an electric vehicle causes more emissions than a thermal one, in the long term, the CO2 emitted by the combustion of fuel by thermal cars are significantly greater than those from the production of electricity for the electrical car. However, this conclusion depends on the carbon intensity of the country you're located in and the usage of the vehicle. To check the carbon intensity of electricity in your country, use the website [electricity maps](#). Hybrid vehicles can be an option too, under the condition that their electric functionalities are used as much as possible in a country with a low carbon energy mix: otherwise, they can actually have higher emissions than their thermal counterparts.*

### Benchmark

UPS has been transitioning its delivery fleet to electric vehicles. The company has set a target of having 40% of its ground fleet be electric by 2025 and aims to achieve 100% alternative fuel vehicles by 2040. UPS has communicated extensively about its EV adoption plans, highlighting the environmental benefits and showcasing its EV deployments in various cities.

### Estimated Impact

In the worst case; the battery is produced in China and is powered with a very emitting energy mix. It then can reduce emissions by 20 to 30% compared to an equivalent thermal model. In the best case, the battery is produced and powered using a green energy mix; emissions reduction over the complete lifecycle can then reach up to 80%.

### Estimated Cost

Although electric cars have a higher upfront cost, their recharging costs are far lower than those of a conventional car. Throughout their complete lifecycle, their costs become similar.

### Implementation

- 1** IDENTIFY the thermal vehicles that are used in a context where they can be gradually be replaced by electric vehicles.
- 2** MAKE a benchmark of the possible electrical vehicles to buy.
- 3** ROLLOUT the change progressively through your vehicle fleet, and gather feedback from end-users.

# Implement a mobility plan within your company

## Travel

*The aim of setting up a Mobility Plan (MP) within your company is to optimise business travel. This involves analysing home-to-work journeys, promoting public transport, car-pooling, using less impactful modes of travel, etc.*

*All these measures help to reduce travel-related greenhouse gas emissions.*

### Benchmark

Schneider Electric has implemented a complete MP, significantly reducing its CO2 emissions linked to travel.

### Estimated Impact

Depending on the habits of employees, implementing a PDM can considerably reduce a company's CO2 emissions.

### Estimated Cost

The initial cost will vary depending on the size of the business and the external services required, but the long-term savings can outweigh the initial costs.

### Recommended Service Providers

Worklife  
1kmapied

### Implementation

- 1** STUDY employee travel habits, identify car-pooling opportunities and the use of less impactful transport.
- 2** CREATE a detailed plan including incentives to encourage environmentally-friendly travel (mobility package, electric bike, car-sharing, etc.).
- 3** SET up tools to monitor journeys, collect data, and regularly adjust your PDM according to the results.

# Promote teleworking and carpooling

## Travel

*Private transportation is a significant contributor to global GHG emissions. Promoting teleworking and carpooling are valuable strategies for mitigating the carbon emissions associated with daily commuting, particularly in cases where the office is not easily accessible via active modes of transportation like walking and cycling, or public transportation. In addition, teleworking can improve employee productivity by minimizing distractions, reducing commuting stress, and increasing work-life balance.*

### Benchmark

Richemont achieved a 73% reduction in commuting emissions in a year by implementing a teleworking policy. This achievement was determined through a survey conducted among employees, comparing commuting emissions before and after the policy implementation.

### Estimated Impact

Carpooling reduces emissions by sharing the emissions associated with the commuting journey among multiple passengers in a single vehicle, replacing individual cars. By increasing average car occupancy from the average 1.2 passenger up to 4, emissions can be divided by 4. Teleworking limits the emissions associated with commuting per employee on the days they telework.

### Estimated Cost

Potential reduction in operational costs (reduced office space, utilities, office supplies, maintenance expenses).  
Additional spending on IT and digital tools are usually negligible compared to the cost savings.

### Recommended Service Providers

Carpooling  
Comovee  
Poola

### Implementation

- 1** EVALUATE the organization's readiness for teleworking and carpooling initiatives, and there is a necessary technological infrastructure to support remote work.
- 2** ESTABLISH and start monitoring your KPIs (ex. percentage reduction in commuting emissions, percentage increase in teleworking adoption rates, percentage increase in carpooling).
- 3** DEVELOP teleworking and carpooling policies that outline guidelines, eligibility criteria, and data security measures. Provide training and resources to employees to enhance their remote work capabilities, including best practices for teleworking and carpooling.

# Replace part of your business travel with video conferencing

## Travel

*By promoting the use of video conferencing instead of direct travel, your business travel CO2 emissions will be significantly reduced. This is the main reason why overall emissions were particularly low during the COVID period!*

### Benchmark

Microsoft has been actively promoting the use of video conferencing and reducing business travel. In a blog post, they shared that they have saved millions of dollars in travel expenses and reduced carbon emissions by using Microsoft Teams for meetings and collaborations instead of traveling to different locations.

Accenture, a global professional services company, has recognized the environmental impact of business travel and actively encourages the use of virtual meetings.

### Estimated Impact

While the costs of these meeting forms depend on many factors such as distance traveled, meeting duration, and the technologies used, we find that video conferencing takes at most 7% of the energy/carbon of an in-person meeting. Emissions are thus reduced by more than 90%.

### Estimated Cost

Given online meeting solutions are already in place for most companies, no additional cost comes from this measure.

### Recommended Service Providers

Your current video conferencing provider

### Implementation

1

IDENTIFY the routes that can be avoided and agree with the different actors of the meetings on a video conferencing solution.

2

ESTIMATE the carbon and monetary savings from avoiding transportation.

3

AGREE with partners/colleagues who usually meet in person to schedule the video conference meeting.

Digital



# Host your data in countries with low-carbon electricity

## Digital

*Data centers consume a significant amount of energy for operations, such as server power and cooling systems. GHG emissions vary based on the geographical distribution of equipment and the carbon intensity of electricity in each country. To select data centers with low-carbon electricity, consult the electricity map website. Moreover, many major data centers are situated in hot or temperate climates, leading to high energy consumption for cooling purposes.*

### Benchmark

Google and Microsoft established hubs in Finland, while Facebook chose Denmark and Sweden, partly due to the availability of renewable energy. Additionally, Google secured an agreement to purchase all the energy from the largest solar energy park in the Netherlands to power one of its European data centers.

### Estimated Impact

Variable depending on the original location of your data center and your target location, but carbon emissions savings can be substantial. For example, the electricity mix in Germany is over 4 times more carbon-intensive than in France. Moreover, locating data centers in colder climates can lead to significant energy savings as cooling-related energy consumption can account for up to 40% of the total energy usage.

### Estimated Cost

Variable based on several factors (data center infrastructure, energy and other costs in the target country notably). Get in touch with your cloud provider to get a better sense of availability of data storage options and costs.

### Recommended Service Providers

Greenly can provide further insight into your current cloud emissions and shifting possibilities through a dedicated study. You can also contact your current cloud provider.

### Implementation

- 1** ESTABLISH and monitor KPIs (ex. percentage of data center providers located in low-carbon electricity mixes countries, overall reduction in carbon emissions achieved).
- 2** GET IN TOUCH with your current data host to discuss relocating your data. If they cannot provide you with alternative locations, identify and evaluate data center providers located in countries with low-carbon electricity mixes.
- 3** CHECK that the prospective data centers meet your organization's requirements (capacity, reliability, security, etc.).

# Energy



# Implement an energy efficiency program – Reducing heating system

## Energy

*Reducing heating usage is a simple and effective way to save energy. By setting the thermostat a few degrees lower in winter and using heating only when necessary, you can significantly cut energy consumption. Limiting heating use in unoccupied spaces and maximizing natural ventilation also helps reduce the strain on heating systems, leading to lower energy bills and a more sustainable energy footprint.*

### Benchmark

Schneider Electric implemented sufficiency actions for their heating systems. For example, the indoor temperature in buildings has been reduced a few degrees, with ventilation and heating start times adjusted. They also maintain their heating systems regularly to ensure that they are operating efficiently.

### Estimated Impact

Emissions from heating represent roughly 40% of a typical office building consumption. Each action (closing doors, adjusting temperature by programming equipment, maintaining your heat pump or RAC) can help you save up to 20% of your emissions from heating.

### Estimated Cost

Savings typically outweigh investment costs thanks to lower electricity bills. Ex. save up to 100 \$ / year by closing windows and doors, insulating pipes and draught-proof around windows, chimneys and other gaps.

### Implementation

- 1** CONDUCT an energy audit of the heating system to quantify energy usage and areas for improvements / potential savings
- 2** DEVELOP a heating plan and KPIs such as heating consumption (kWh) per square foot or average inside temperature
- 3** IMPLEMENT the plan and follow the KPIs as well as the returns on investment



# 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

# Turn off the lights at night

## Energy

*Keep illuminated signs and displays turned off as long as possible to limit GHG emissions associated with the use of electricity as well as massive impacts on nocturnal biodiversity (disruption of reproduction cycles, fragmentation of migration corridors and disruption of physiological cycles of flora).*

### Benchmark

Since October 2022, Valentino decided to switch off the lights at 10 p.m., estimating a daily decrease in energy consumption of over 800 kWh.

### Estimated Impact

The reduction in electricity consumption is proportional to the reduction in lighting time.  
Emissions from electricity usage vary based on the carbon intensity of the country.

### Estimated Cost

Only cost savings (reduced electricity consumption).

### Implementation

- 1** ESTABLISH and start monitoring your KPIs (such as percentage reduction in electricity consumption and costs), and engage with relevant internal stakeholders to ensure effective implementation and monitoring.
- 2** RAISE awareness (ex. through training sessions) on the environmental and biodiversity impacts of illuminated signs and displays to all employees.
- 3** DEVELOP a clear and comprehensive policy that outlines guidelines and specific measures. Specify the permitted operating hours, ensuring they align with sustainability goals.

# Implement energy saving trainings

## Energy

*People consumption has a great influence on the carbon footprint of a building. Therefore, using messages to influence residents. According to Pegels, Figueroa and Never, "Using less energy" as such is hardly ever the main motivation for investing in new technology or engaging in energy-saving behavior. In contrast, if people are particularly motivated by competition, status, or helping others, they are likely to react favorably to respective interventions."*

### Benchmark

Schneider electric implements various programs for its employees to limit their energy consumption.

### Estimated Impact

According to Sun&Hung, in the US, the austerity behavior style employee consumes 17.8-32.1% less energy than the "normal" employee. The estimated CO2 impact will depend on the energy source and usual consumption

### Estimated Cost

Prices depend on the length of the training, the number of employees.

### Implementation

- 1 TRACK consumption of different items (water, electricity etc.).
- 2 IDENTIFY on which aspects employees might need training.
- 3 REQUEST training services from external provider.

# Reuse the thermal energy produced by your data centers

## Energy

*In order to fully exploit the energy losses of your data centers (ex. servers, storage bays, etc.), it is possible to reuse the heat produced instead of venting it into the atmosphere. Waste heat from data centres could help to heat nearby commercial and residential buildings or supply industrial heat users, reducing energy use from other sources.*

### Benchmark

Microsoft has partnered with the Finnish company Fortum to heat thousands of homes in Helsinki with waste heat from its data center.  
In Sweden, an initiative called Stockholm Data Parks uses the energy production of the largest data centers to power 80k homes, according to the think tank Energy Innovation.

### Estimated Impact

Variable carbon impact (depends on which fuel and technology are replaced by waste heat, among other considerations).

### Estimated Cost

Variable initial infrastructure investment costs. Savings generated through the reuse or sale of recovered energy.

### Recommended Service Providers

Sesterce  
Ecotechceram  
Siemens

### Implementation

- 1** ESTABLISH and start monitoring your KPIs (ex. percentage of waste heat recovered).
- 2** CONDUCT a feasibility assessment to evaluate the technical and economic viability of heat reuse in the local context.
- 3** FIND a contractor to design and install an efficient heat recovery system that captures and channels the waste heat from the data center.

# Services Purchases



# Implement carbon impact conditions in your service purchase policy

## Services Purchases

*Procuring products and services often contributes to a significant portion of a company's emissions, with supply chains accounting for over 80% in consumer companies. To effectively address this issue, incorporating eco-conditions criteria into your company's procurement policy offers a straightforward and efficient strategy. To ensure suppliers' climate maturity, engage them through the Greenly Feature, facilitating a comprehensive understanding of their Climate Maturity. These criteria can be implemented with current suppliers and incorporated into the supplier selection process for new contracts.*

### 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.

### 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

Map the climate maturity of your Service Providers:  
Understand your supplier climate actions and maturity with the Greenly Procurement module

### Implementation

1

LAUNCH the Greenly Sustainable Survey to assess suppliers' climate maturity and align their practices with your sustainability goals

2

SET and TRACK KPIs with Greenly dashboards: monitor suppliers' GHG emissions, Paris Agreement 2030 alignment, and SBTi certification.

3

SUPPORT and recognize suppliers' efforts. Offer tools, training, and resources to help them meet goals. Track and report their progress.

# Product purchases



# Choose packaging made from recycled raw materials – Textil

## Product purchases

*Choosing packaging from recycled materials offers key environmental benefits. It conserves natural resources by reducing the need for raw materials, cuts energy use in manufacturing, and lowers greenhouse gas emissions. It also helps reduce waste by diverting materials from landfills, supports recycling infrastructure, and meets consumer demand for eco-friendly products. This sustainable choice boosts a company's reputation and fosters a more circular, environmentally conscious economy.*

### Benchmark

This outdoor clothing company uses recycled materials for its packaging to minimize environmental impact. IKEA strives to use renewable and recycled materials in its packaging, and they aim to use 100% renewable or recycled materials by 2030.

### Estimated Impact

Up to 90% of the packaging related emissions 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

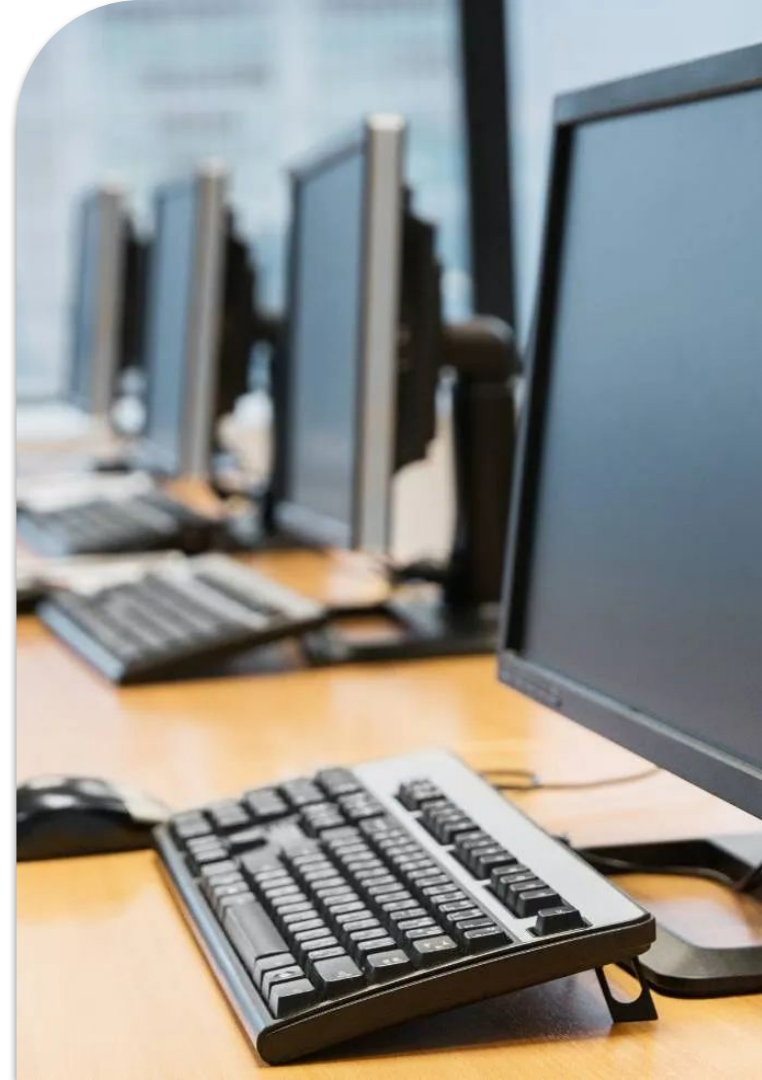
Get in touch with your current material providers or other local providers to scout for options.

### Implementation

- 1** EVALUATE the raw materials used in your packaging. Take into account their volume, the associated emissions and the possible impact on market.
- 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.



# Assets



# When changing premises, prioritize sites having environmental certification

## Asset

*Buildings are responsible for a significant proportion of global greenhouse gas emissions. According to the United Nations Environment Programme (UNEP), buildings account for around 39% of global energy consumption and around 30% of CO2 emissions. Environmental certification has become a guarantee of quality for building owners and operators. Whether in terms of the impact of the building materials used, energy consumption or summer comfort.*

### Benchmark

Woodeum is a company that specialises in the construction of low-carbon timber buildings. They have completed projects such as Hyperion, a timber office building in Bordeaux, which is one of the largest timber buildings in Europe and offers a reduced carbon footprint compared to traditional building materials.

### Estimated Impact

A low-carbon building is designed to significantly reduce its carbon footprint throughout its lifecycle, from construction to day-to-day use. The combination of energy efficiency measures, the use of renewable energy sources, sustainable materials and responsible waste management can significantly reduce the carbon impact compared with a conventional building.

### Estimated Cost

In general, constructing a low-carbon building can involve slightly higher initial costs compared to a conventional building. It should be noted that each construction project is unique, and specific costs may vary. A detailed assessment by professionals is necessary to estimate the costs associated with a project.

### Implementation

- 1** ASSESS environmental certifications: evaluate the specific criteria and standards of each certification.
- 2** SELECT potential sites: work with estate agents specialising in sustainable buildings.
- 3** ASSESS and compare the environmental benefits, costs and operational advantages of each option in order to make an informed decision.



# Conclusion

# | Conclusion

The GHG assessment made it possible to identify Prenax'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 (-46 tCO<sub>2</sub>e).

## The recommended next steps in Prenax's carbon strategy are:

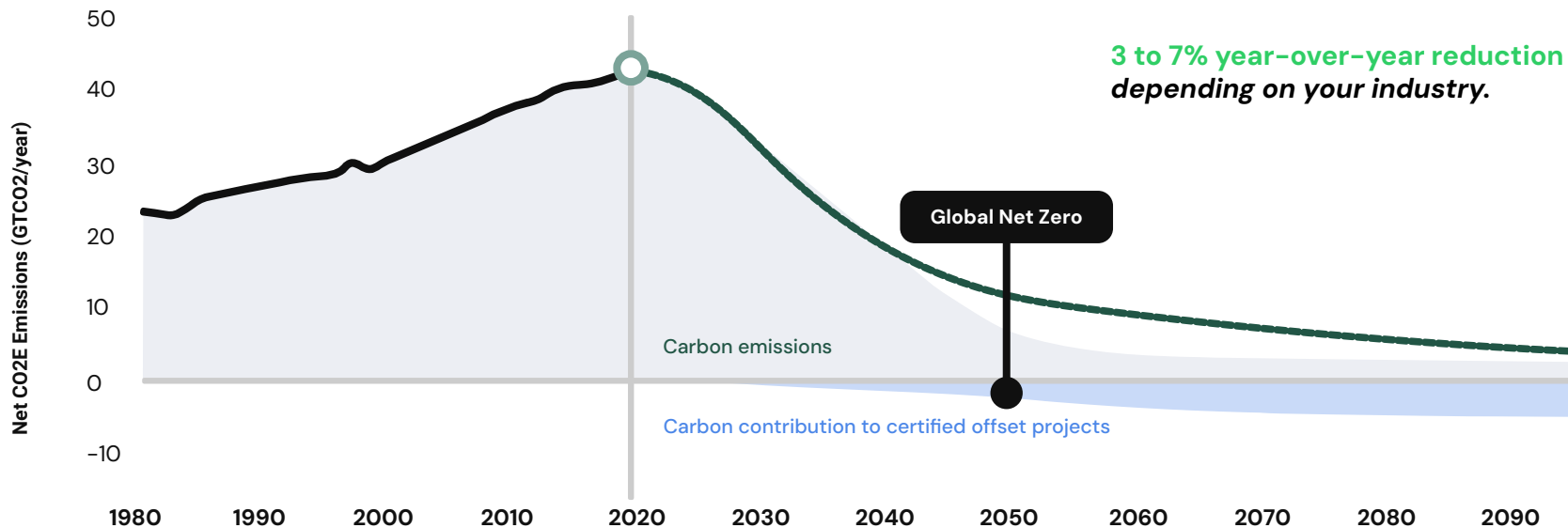
- 1 **Study key emission sources in greater depth**, if you opt for that. Your Climate Expert can help you decide between the different options available!
- 2 **Establish GHG emission reduction targets and implement an action plan** in order to achieve these targets.
- 3 **Engage your suppliers** using 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



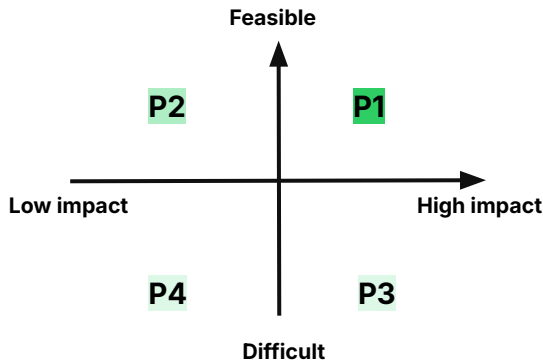
# How can I build my reduction trajectory?

THE 4 KEY STAGES IN DEFINING AND FOLLOWING YOUR TRAJECTORY

## Refine your greenhouse gas emissions assessment

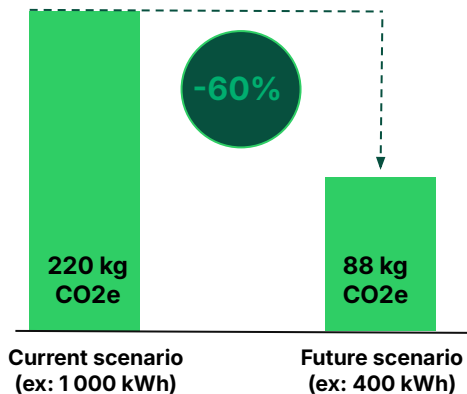
Your 2023 assessment is based on **32%** of physical data, the rest being financial data. We recommend that you regularly improve the accuracy of your greenhouse gas assessment by adding more physical data. You will be able to quantify and monitor your reductions with precise targets in km, kg, kWh, etc.

### Prioritize your actions



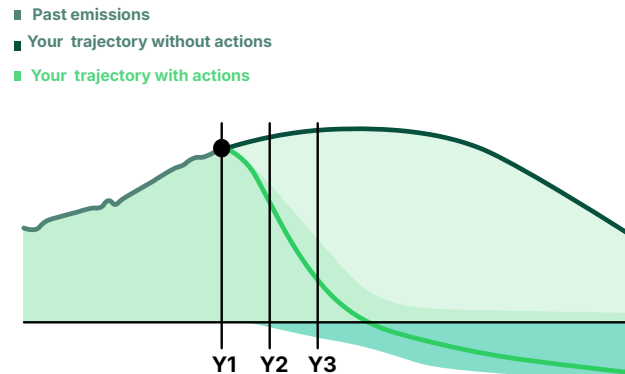
Place your actions on the matrix after identifying operational constraints in consultation with your teams.

### 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](#)



[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](#)

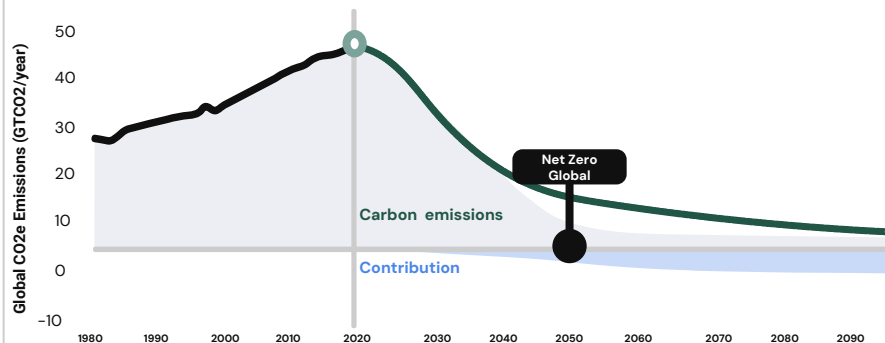


# Commit to a Multi-year Carbon Trajectory

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

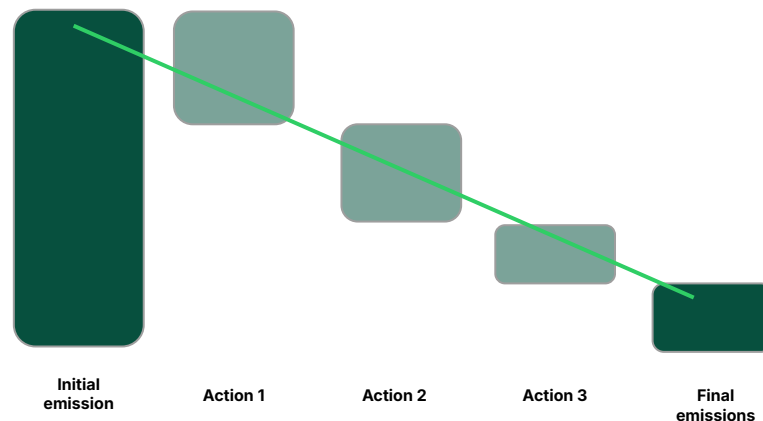
## Paris Agreement Objective

-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

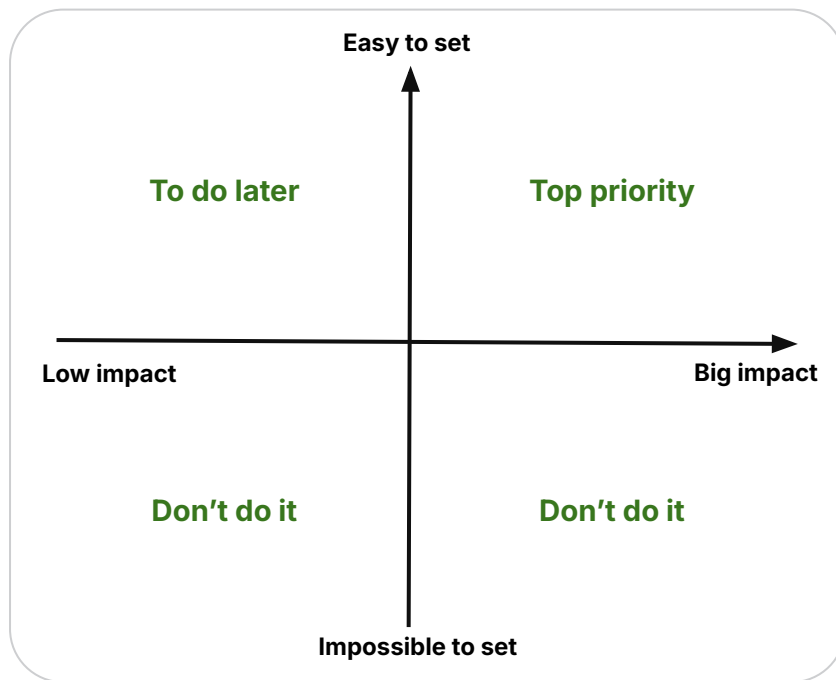
Bring together the stakeholders in your climate strategy

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

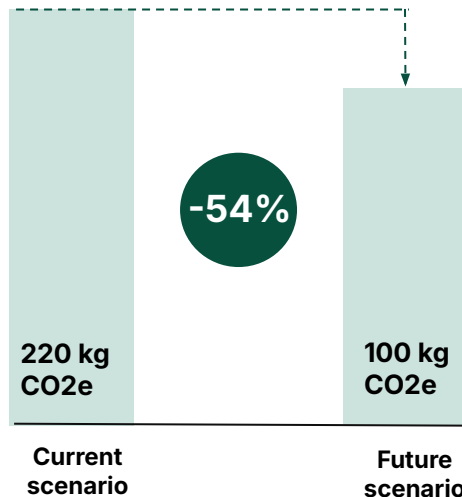
Optimize your trajectory



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



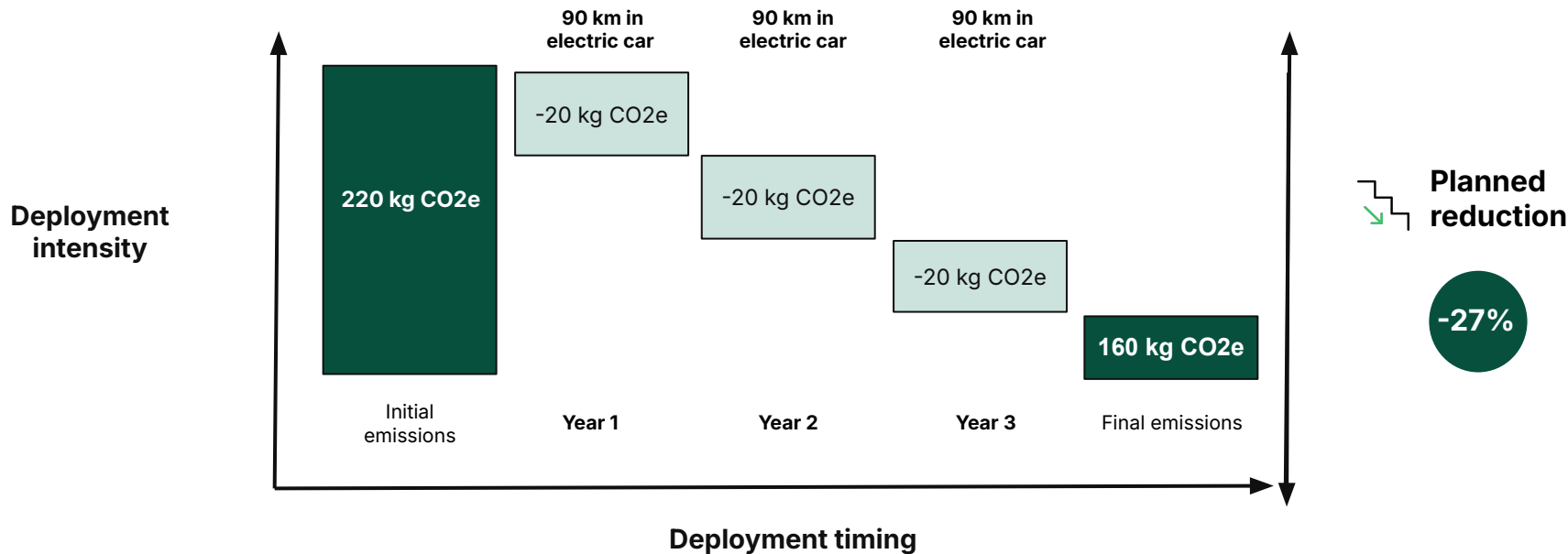
# Build Your Carbon Reduction Trajectory

3 KEY STEPS TO BUILD YOUR TRAJECTORY

Prioritize your actions

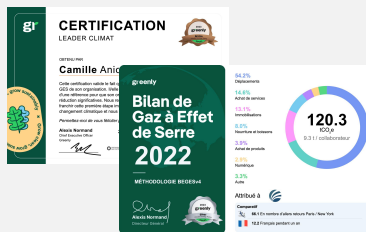
Calculate their reduction potential

Optimize your trajectory

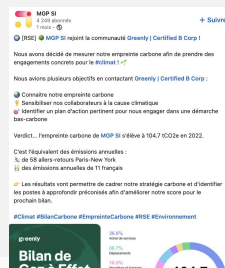


# Greenly's communication support to highlight commitment

## Company & Personal Certificates

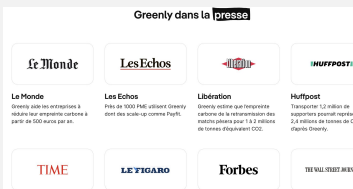


## Social Networks



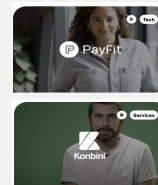
## PR

Communicate on media



## Customer Video Testimonials

Testimonials showcasing the work done with Greenly



Premium

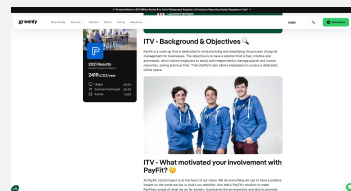
## Join our community: ESG Connect

Slack Channel, afterwork, Events, Webinars

350k Members  
As of August 2023

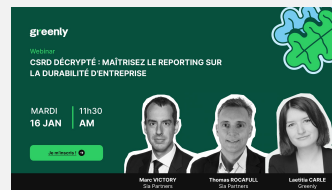
10+ Countries  
including USA, UK, France, Australia etc.

## Case studies



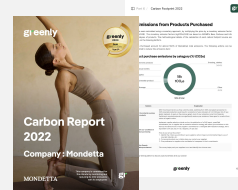
## Webinar

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



## Extended Report

Get your report formatted by our marketing team

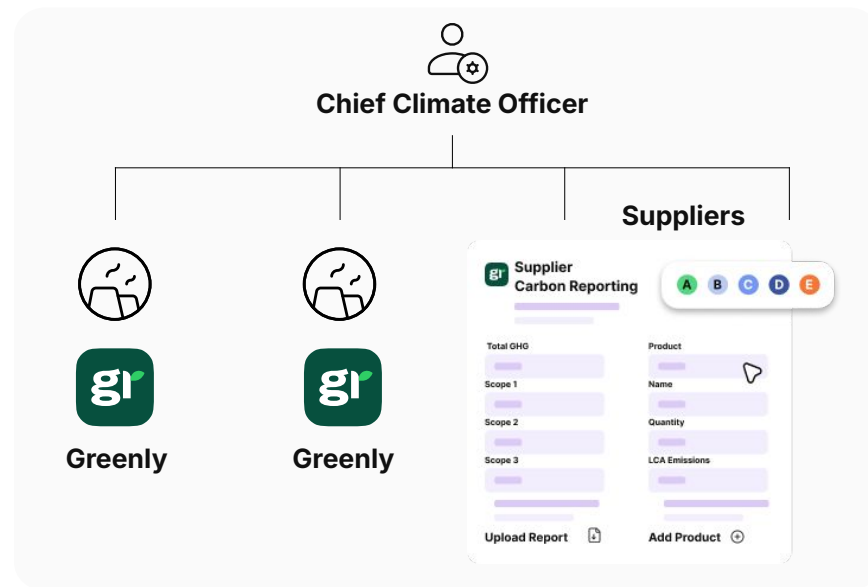
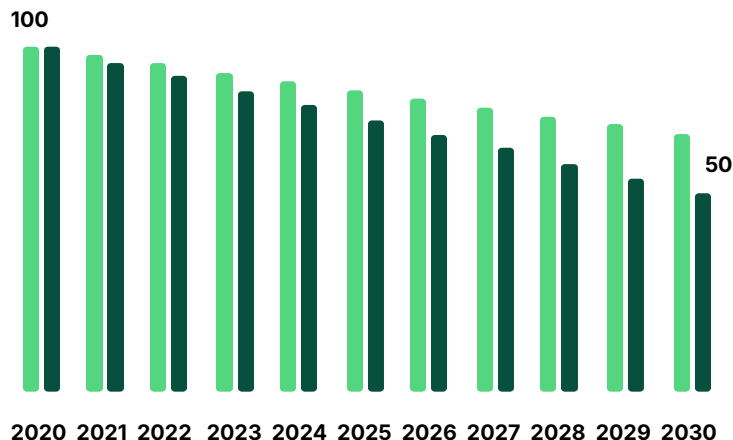


# Engaging suppliers to align with the company's Net Zero targets

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 Prenax is 47 points**

Points are distributed as follows:

Creating & fine-tuning the Greenhouse Gas report: **30/40**

Action plans: **13/36**

Climate targets: **4/4**

Involving your teams: **0/10**

Carbon contributions: **0/10**

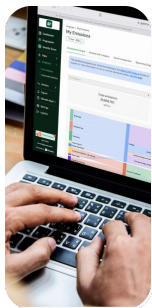
**The Score will be updated at the Climate Strategy follow-up meeting.**

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

Onboarding



Month 2

Quiz 1  
Climate  
Science



Month 3

Quiz 2  
IT



Month 4

Quiz 3  
Food



Month 5

Quiz 4  
Transport



Month 6

Quiz 5  
Energy



Month 7

And more..



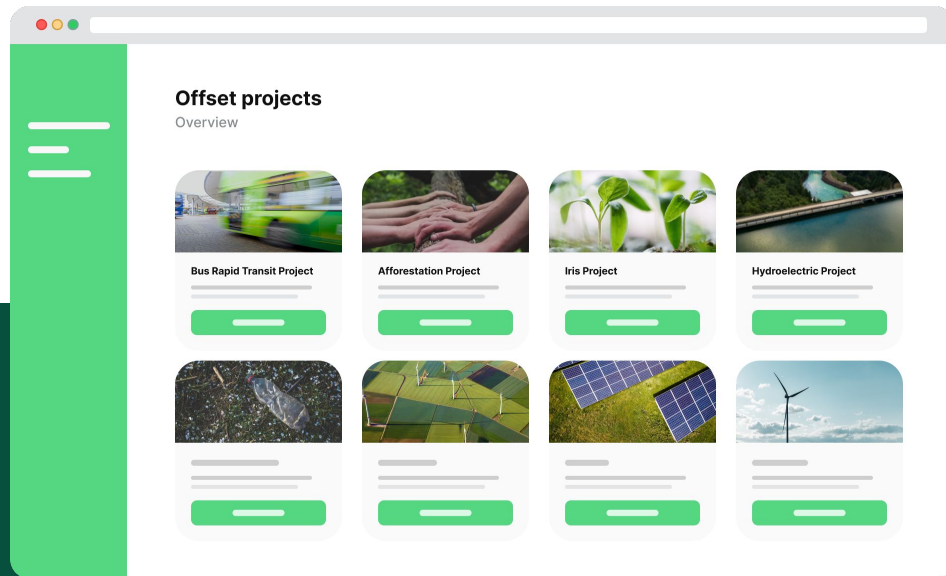
Month 12

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 than what your organization is emitting

LABEL BAS  
CARBONE

reverse

Gold Standard

# Become a Referral Partner

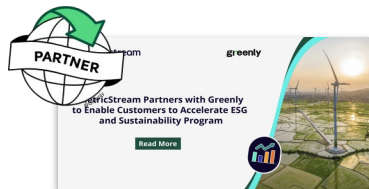
Refer customers to Greenly and use your commissions to reduce the cost of your future GHG reports.

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



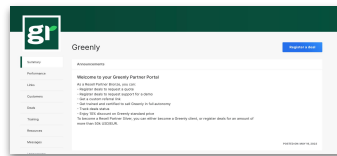
## COMMUNICATE

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

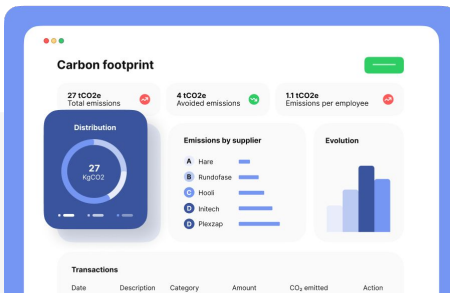
# The Greenly Vision

MAKING CARBON ANALYTICS UNIVERSAL



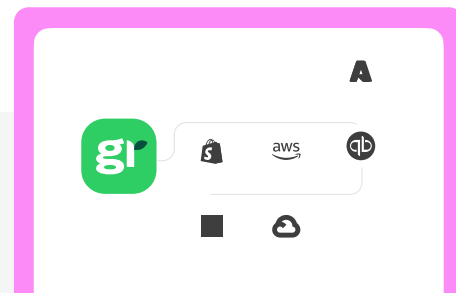
## CARBON FOOTPRINT APP & API

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 HUTCHINSON RENAULT TEVVA Schlumberger

## Tech

alma ZOOPLA TripAdvisor PayFit Konbini

## Retail

bel for all good COURIR LVMH PETRUS PERNOD Ricard

## Services

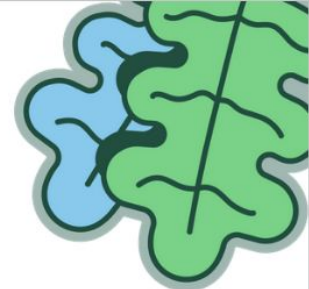
ACCOR Capgemini Kéa Mediametrie econocom

## Finance

COATUE Shell Ventures AXA EIFFEL INVESTMENT GROUP BNP 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



# Scope 1&2



Scope	Name	tCO2e	
1.1	Generation of electricity, heat or steam	9	
1.2	Transportation of materials, products, waste, and employees	0.1	
1.3	Physical or chemical processing	-	EXCLUDED : Category is not relevant for the company
1.4	Fugitive emissions	-	EXCLUDED : Category is not relevant for the company
2.1	Electricity related indirect emissions	39	
2.2	Steam, heat and cooling related indirect emissions	34	

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	379	
3.2	Capital goods	5	
3.3	Fuel- and energy- related activities not included in Scope 1 or Scope 2	45	
3.4	Upstream transportation and distribution	47	
3.5	Waste generated in operations	11	
3.6	Business travel	88	
3.7	Employee commuting	109	
3.8	Upstream leased assets	3	
3.9	Downstream transportation and distribution	-	EXCLUDED : Category is not relevant for the company
3.10	Processing of sold products	7	
3.11	Use of sold products	-	EXCLUDED : Category is not relevant for the company
3.12	End-of-life treatment of sold products	-	EXCLUDED : Category is not relevant for the company
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	9	0	6	0.6	0.2	2	0
1.2	0.1	0	0.07	0.01	0.002	0.02	0
1.3	-	-	-	-	-	-	-
1.4	-	-	-	-	-	-	-
2.1	39	0	33	2	2	2	0
2.2	34	0	29	2	2	2	0

\* Results expressed in tons of CO2e

# Scope 3



Scope	tCO2e	tCO2b	CO2f*	CH4f*	CH4b*	N2O*	Other GHGs*
3.1	379	0	328	34	0	12	5
3.2	5	0	4	0.06	0	0.02	0.009
3.3	45	0	36	5	2	3	0
3.4	47	0	41	3	0	3	0
3.5	11	0	8	0.8	0	2	0
3.6	88	0	76	6	0	6	0
3.7	109	0	104	1	0.3	3	0.8
3.8	3	0	3	0	0	0	0
3.9	-	-	-	-	-	-	-
3.10	7	0	7	0	0	0	0
3.11	-	-	-	-	-	-	-
3.12	-	-	-	-	-	-	-
3.13	-	-	-	-	-	-	-
3.14	-	-	-	-	-	-	-
3.15	-	-	-	-	-	-	-
4.1	0	0	0	0	0	0	0

\* Results expressed in tons of CO2e



Contact us

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