



Year 2023

# GHG emissions report Tuyan, LLC



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## About Greenly

- Our vision & team

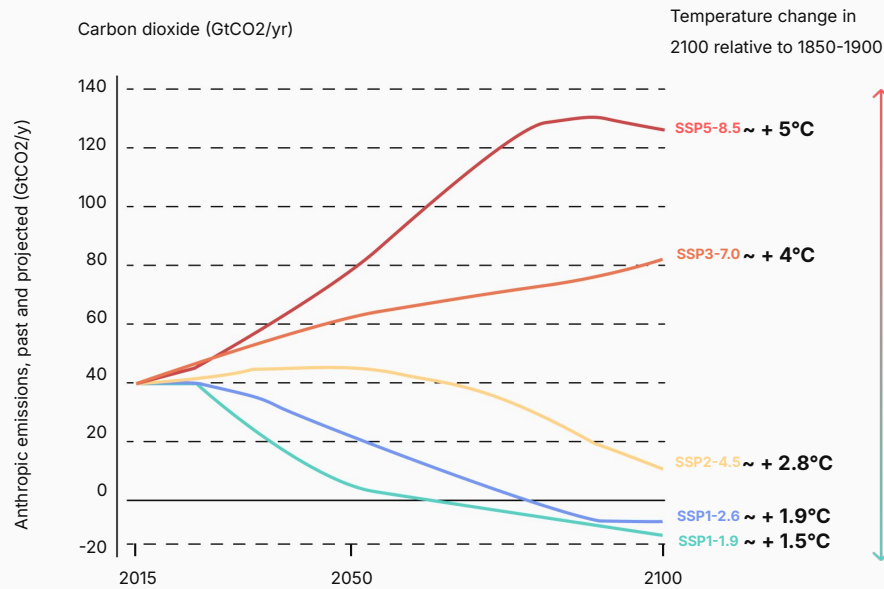
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## Appendix

- 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.



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



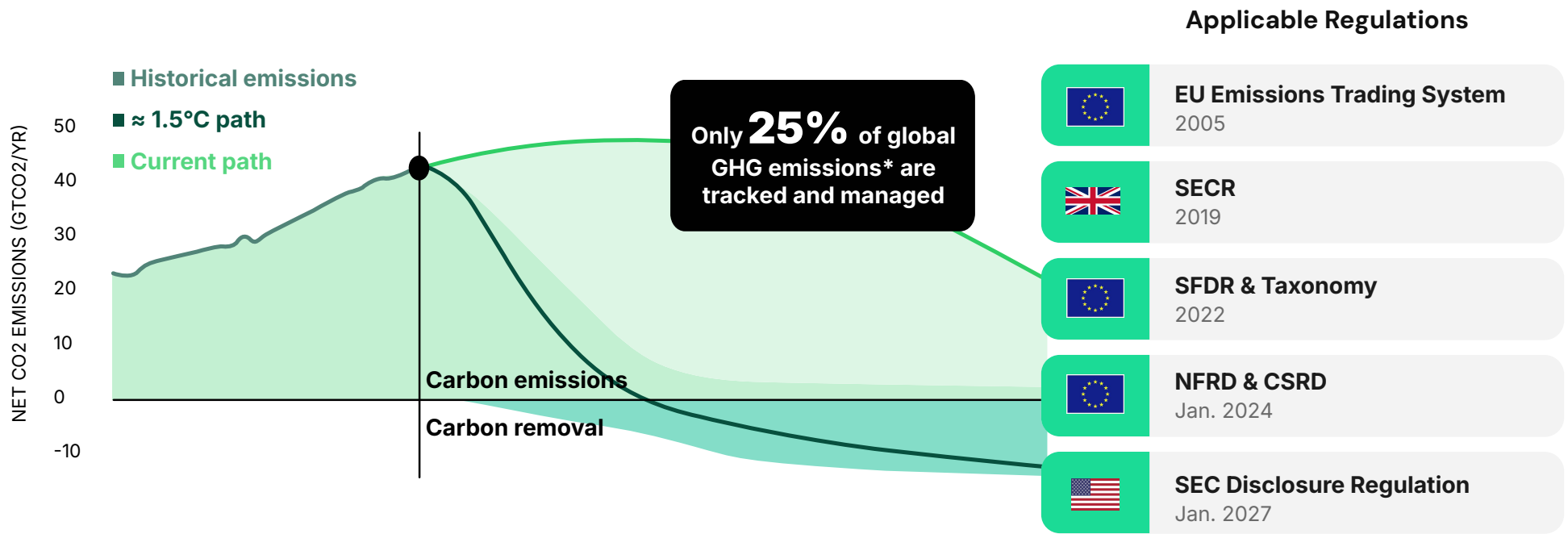
Shifting employee mindsets and expectations regarding the environmental reputation of their employer

## 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

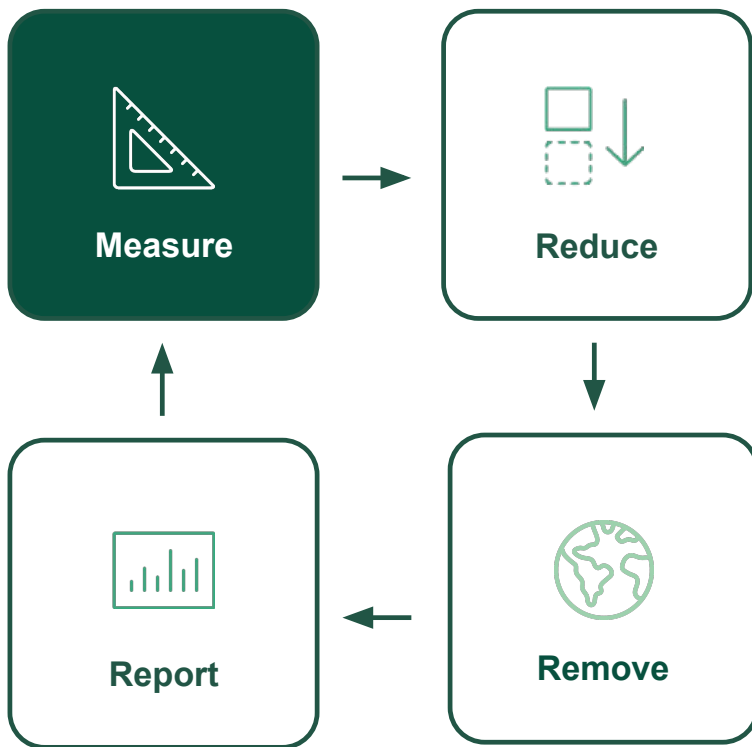


Source: \*Carbon Pricing Leadership Report



# 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

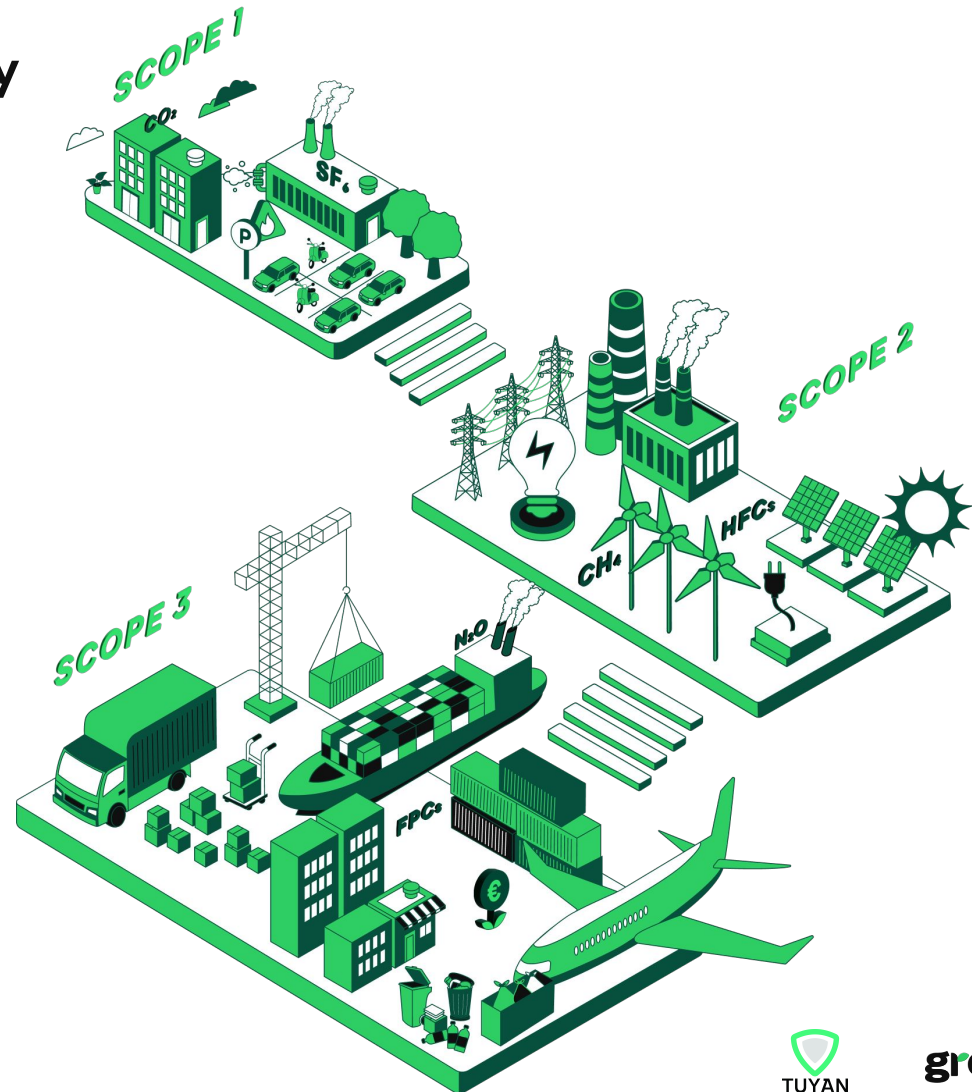
Emissions related to the organization's consumption of electricity, heat or steam.

**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.



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# How are emissions computed?

ANALYZING EMISSIONS, AUTOMATING TRACKING




48% of your emissions of 2023 are calculated using activity data

Activity metrics x Emissions factors = CO2 Eq. Emissions

Expense based

Increasing Accuracy\*

Activity based

 <b>Total Expense</b> 80 \$	1.75 kgCO2e/\$	140 kgCO2e
 <b>Total Distance</b> 600 miles	0.2 kgCO2e/mile	120 kgCO2e
 <b>Total Fuel</b> 40 gallons	2.8 kgCO2e/gallon	112 kgCO2e

\*depending on the availability of data

## Emission Factor Sources



Methodological reference: ADEME note on the use of accounting data for the GHG Accounting



# | GHG emissions assessment scopes

## Entity

Tuyan, LLC

From October 2023 to September 2024

-

## Primary data

Accounting data

Employee survey

Buildings data

Activity data from the following module: Travels

## 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 / 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



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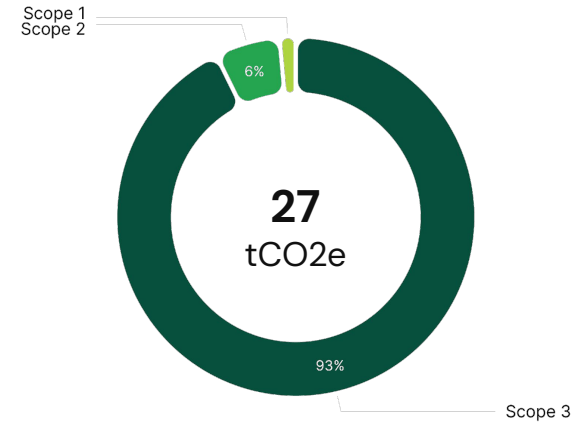
# Executive summary

This report summarizes the results of Tuyan, LLC'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.**



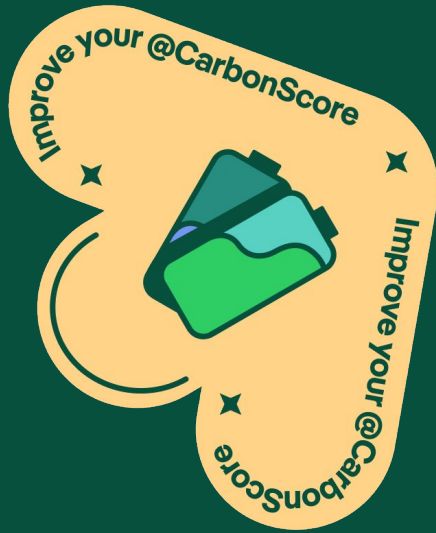
## GHG emission assessment result

Scope 1	0.4tCO <sub>2</sub> e	< 0.1t/employee	< 0.1t/M\$
Scope 2	1.6tCO <sub>2</sub> e	0.3t/employee	0.4t/M\$
Scope 3	25tCO <sub>2</sub> e	5.1t/employee	6.3t/M\$
<b>Total</b>	<b>27tCO<sub>2</sub>e</b>	<b>5.5t/employee</b>	<b>6.8t/M\$</b>



Results subject to the correct categorization and validation of expenses of Tuyan, LLC – categorization score of 100% on this report.





# Emissions Report

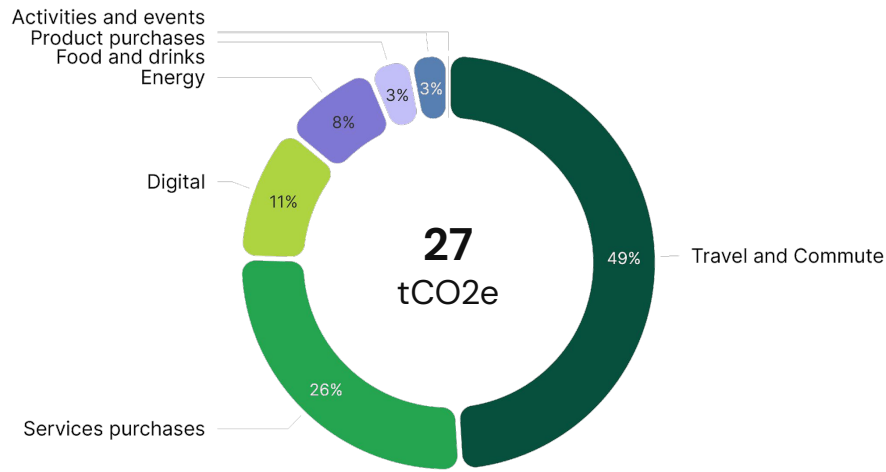


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# General overview

## RESULTS BY ACTIVITY

Total emissions of Tuyan, LLC,  
by activity (% tCO2e)



Is equivalent to:



The amount of CO2 sequestered annually by **6 acres of growing forest\***



The annual emissions of **1 Americans\***



**15 Paris - New York round trips\***

	Absolute tCO2e	Per employee tCO2e/employee
Travel and Commute	13	2.7
Services purchases	7.2	1.4
Digital	2.9	0.6
Energy	2.1	0.4
Food and drinks	0.9	0.2
Product purchases	0.8	0.2
Others**	< 0.1	< 0.1

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

\*\*Activities and events

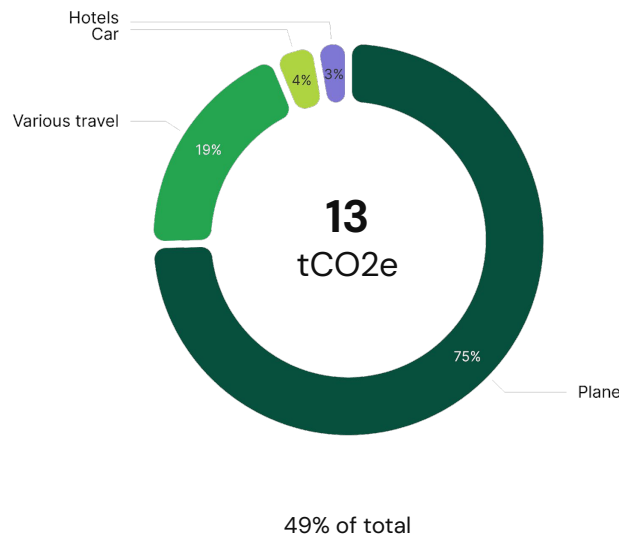


# Focus on Travel and Commute

Activity data  
11 tCO2e (82%)

Expense data  
2.5 tCO2e (18%)

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:

- Stop air travel when a 6 hours train alternative is available
- Replace part of your business travel with video conferencing
- Favor direct flights

See additional best practices in the action plans section

## Methodology

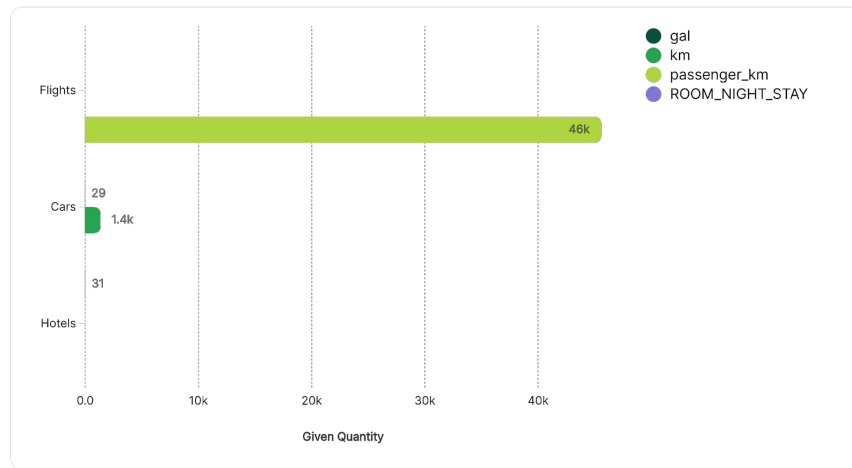
1. Emissions calculated using activity and expense data, by multiplying a quantity by an emission factor.
2. The emission factors used for this category come from the following databases: Base Carbone Ademe 22.0, Cornell Hotel Sustainability Benchmarking Index 2023, Exiobase 3.8.1, UK GHG Conversion Factor 2024
3. Details of the methodology used to calculate each carbon footprint source are available on the Greenly platform.



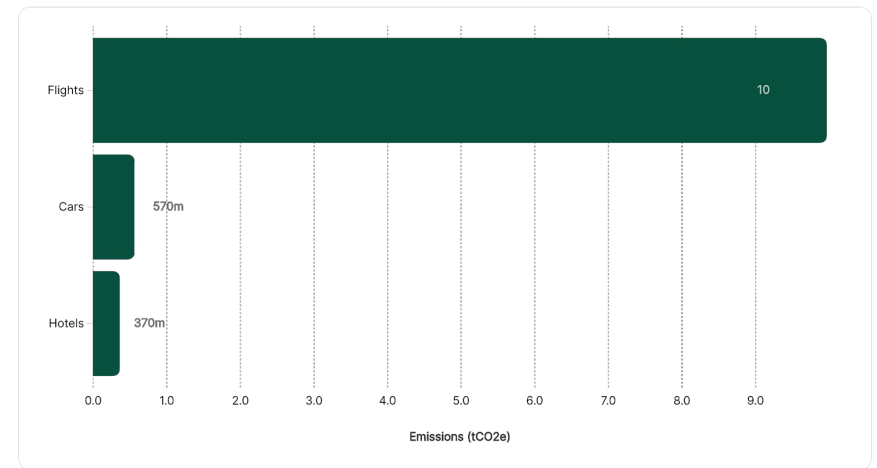
# Focus on Travel and Commute

## ACTIVITY DATA ANALYSIS: TRAVELS

### Quantities



### Emissions



**This module covers 40% of total emissions.**

This represents 11 tCO2e.

### Methodology

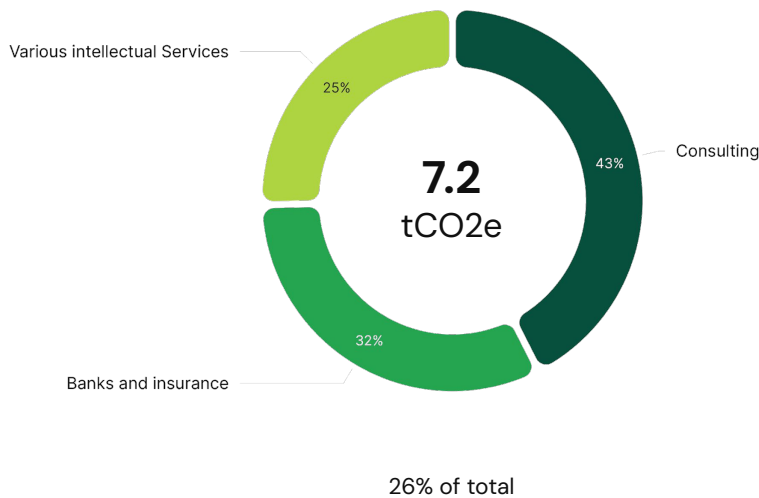
1. Emissions are computed by multiplying the physical data with emission factors (in kgCO2e, for instance).
2. Emission factors used for this category come from the following databases: Base Carbone Ademe 22.0, Cornell Hotel Sustainability Benchmarking Index 2023, Uk GHG Conversion Factor 2024
3. The 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 Services purchases

Activity data  
0 tCO2e (0%)

Expense data  
7.2 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
- Evaluate your supplier's climate maturity
- Precise scope 3 emissions with supplier-specific emission factors

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



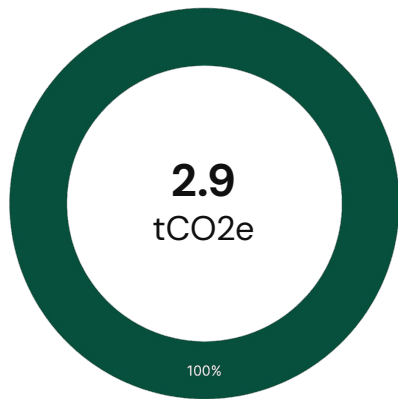


# Focus on Digital

Activity data  
0 tCO2e (0%)

Expense data  
2.9 tCO2e (100%)

Digital emissions by category  
(% tCO2e)



Software licenses

11% of total



## What is included in this category?

CO2 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:

- Improve the workload of the servers
- Embark on a "Responsible Digital" certification process

## 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: Company Report 1.0
3. Details of the methodology used to calculate each carbon footprint source are available on the Greenly platform.

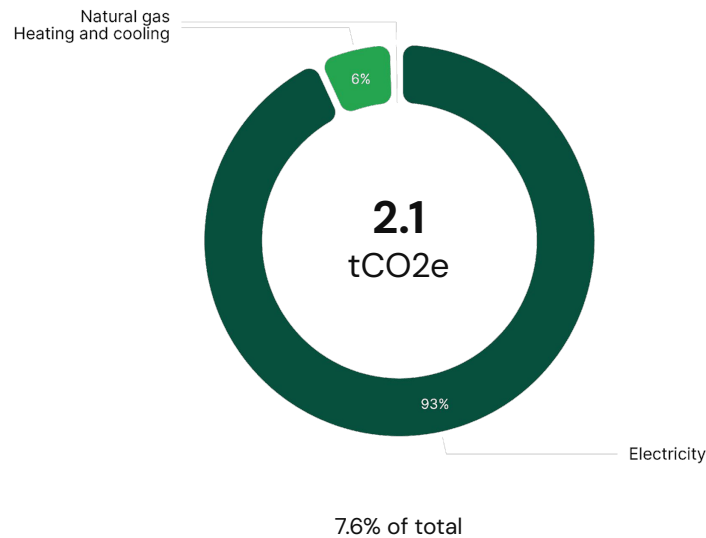


# Focus on Energy

**Activity data**  
2.1 tCO2e (100%)

**Expense data**  
0 tCO2e (0%)

## Energy emissions by category (% tCO2e)



### What is included in this category?

CO2 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:

- Sublease the office space you are not using
- Implement energy saving trainings

## Methodology

1. Emissions calculated using activity 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, EPA GHG Emission Factor Hub 2024, IEA 2023
3. Details of the methodology used to calculate each carbon footprint source are available on the Greenly platform.





# Focus on Buildings

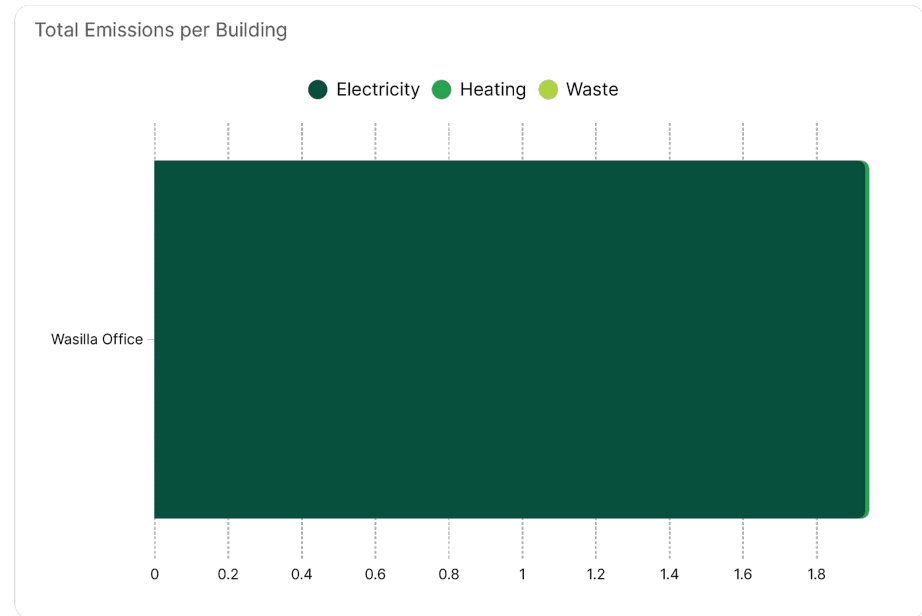
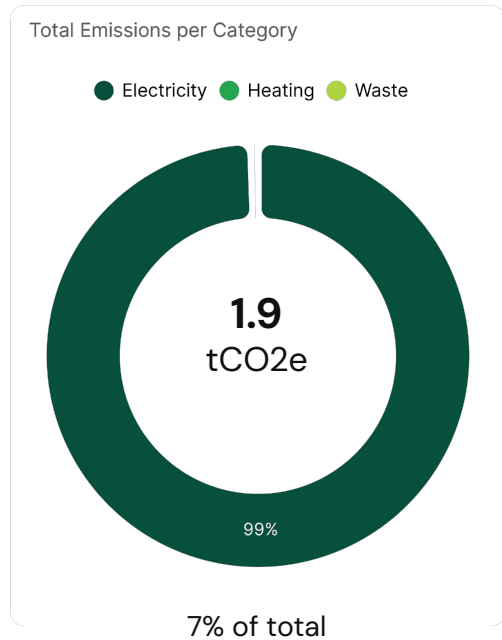


# Focus on buildings

## ACTIVITY ANALYSIS

**Activity emissions**  
1.9 tCO<sub>2</sub>e (100%)

**Estimated emissions**  
0 tCO<sub>2</sub>e (0%)



## 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).





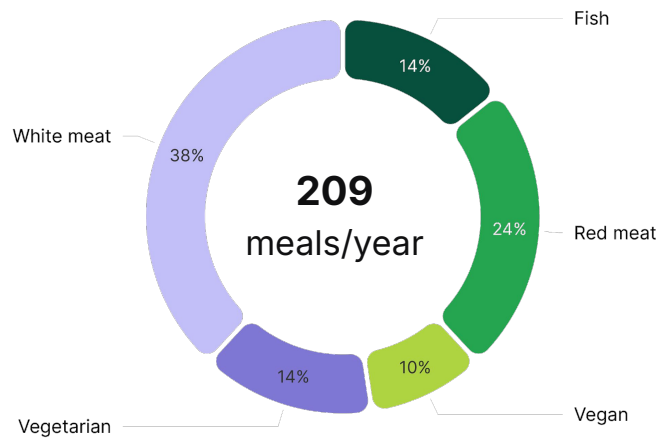
# Focus on Employees



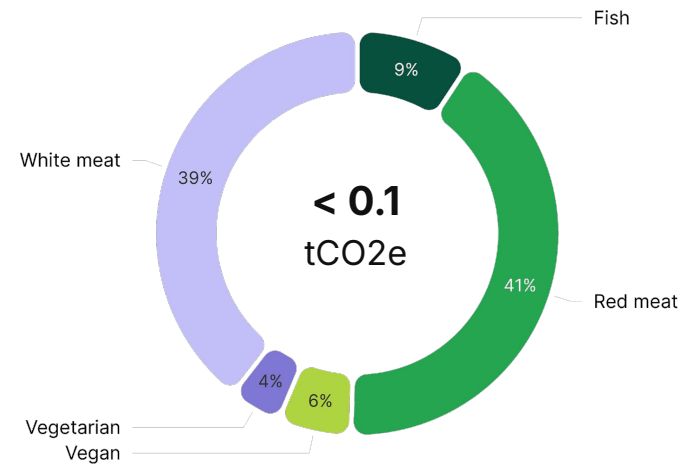
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# | Focus on Employee Meals

**Number of meals per employee per year**  
(per diet)



**GHG emissions**  
(tCO2e / employee)

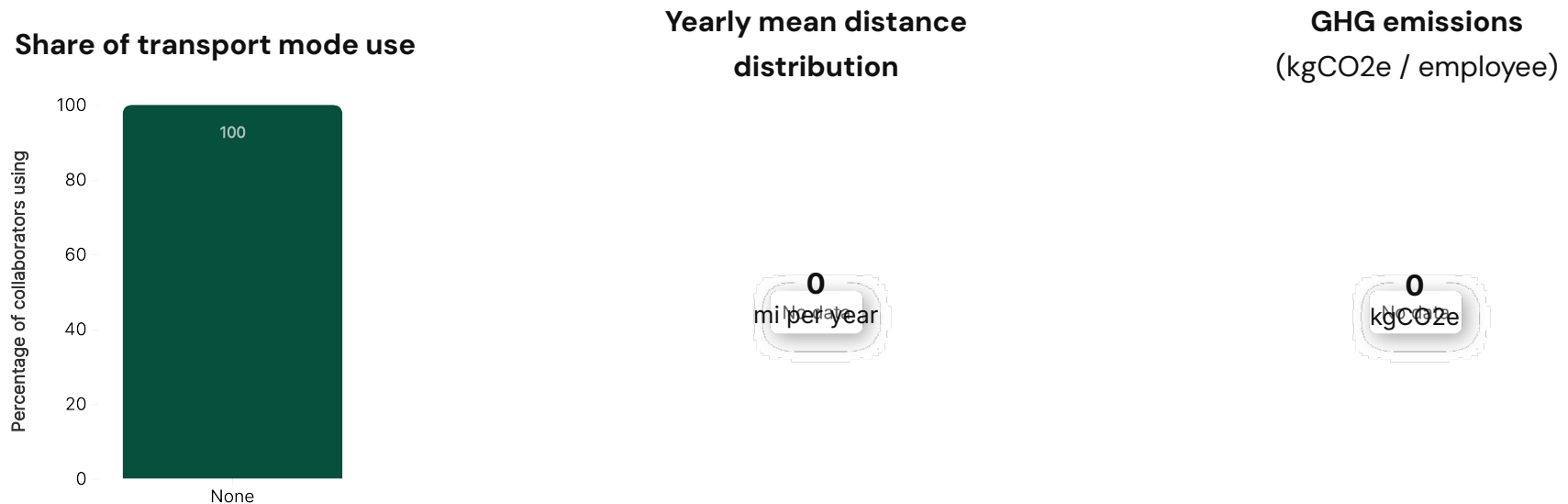


## | Methodology

Analysis is based on the employee survey, which obtained a 100% response from your employees to whom the questionnaire was sent (5 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



On average, your employees travel 0 kilometers each year, emitting 0 kgCO<sub>2</sub>e 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 (5 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



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# 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.

\*Source: [IPCC](#)

# 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.*

Low impact    Short term

### 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).



# Favor direct flights

## Travel

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 roughly 10% when comparing flights with a stop-over and direct flights.

### Estimated Cost

Some indirect flights may be cheaper than their direct alternatives, but these price increases are usually offset by the reduction in total travel time.

Low impact    Short term

### Implementation

- 1** DEVELOP a Sustainable Travel Policy in which you include guidelines and criteria for selecting direct flights.
- 2** PROMOTE awareness and employee engagement on the importance of sustainable travel and the rationale behind favoring direct flights.
- 3** ESTABLISH and monitor your KPIs (ex: % of flights booked as direct flights, GHG emissions per employee or per km traveled).



# 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

Medium impact      Short term

### 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.



# 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!*

Medium impact      Short term

### 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.



# Stop air travel when a 6 hours train alternative is available

## Travel

Opting for train travel instead of air and car travel for short-distance trips (e.g., within a 6-hour train journey) can substantially reduce the carbon footprint of your business travel. Trains have significantly lower carbon emissions per passenger-kilometer compared to airplanes and cars. Apart from being environmentally friendly, train travel offers efficient boarding, minimal waiting times, spacious seating, and direct access to city centers, enhancing the overall travel experience.

Medium  
impact

Medium  
term

### Benchmark

Mama Loves Ya has set a goal to select train travel for 50% of its trips below 750 km by 2025 (versus 10% today). This commitment is projected to result in a 45% reduction in emissions from flights, equating to over 2t of CO<sub>2</sub>e emissions avoided annually. Additionally, it will contribute to an 8% reduction in the company's total carbon footprint.

### Estimated Impact

Taking a train instead of a car for medium-length distances would cut your emissions by ~80%. Using a train instead of a domestic flight would reduce your emissions by ~84%. From that, you can estimate the total impact of the action plan by assessing which share of your total flight emissions would be impacted.

### Estimated Cost

Variable, train tickets may be more or less expensive than plane tickets or car travel depending on various factors.

### Recommended Service Providers

Rome2Rio  
Travel Perk  
Offres entreprise SNCF  
Suppertripper

### Implementation

- 1** CONDUCT an assessment of all existing air travel routes within your organization, identify those that have a train alternative of less than 6 hours, and evaluate the feasibility of replacing air travel with train.
- 2** DEVELOP and enforce a clear travel policy that mandates the use of train travel instead of air travel for these routes.
- 3** ESTABLISH and start monitoring your KPIs (ex. total percentage reduction in air travel, percentage reduction in air travel on eligible routes, etc.).

# Services Purchases







# Precise scope 3 emissions with supplier-specific emission factors

## Services Purchases

Enhancing GHG emission precision is crucial. By adopting supplier-specific emission factors and GHG transaction-based approaches, companies can accurately measure and reduce Scope 3 emissions. This method ensures detailed emission data, supporting informed decision-making and environmental accountability. Benefits include fostering sustainable practices, enhancing supply chain resilience, and bolstering corporate reputation. Use the Greenly tool to engage suppliers and obtain data for tailored emission factors. Precise GHG data empowers ambitious reduction targets, aligning with global climate goals, and leading in sustainability practices.

High impact Medium term

### Benchmark

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 survey, and reviews answers periodically to ensure adherence.

### Estimated Impact

Enhancing visibility into the carbon footprint of your suppliers and integrating diverse eco-conditions into your purchasing policy can significantly reduce Scope 3 emissions over time. This approach can also serve as a catalyst, encouraging other industries to embark on their own 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** USE Greenly's Sustainable Procurement Tool to IDENTIFY suppliers. Access our Supplier-Specific EF database for precise GHG Scope 3.
- 2** ENGAGE YOUR SUPPLIERS: If specific EFs aren't available, the tool helps request this crucial information (Exclusively for Service Providers).
- 3** VERIFICATION & AUDITABILITY: After obtaining supplier information, we conduct an audit to verify data. Approved audits integrate EF into the GHG



# Evaluate your supplier's climate maturity

## Services Purchases

The first step to creating a sustainable purchase strategy is engaging suppliers, which is crucial for reducing Scope 3 emissions. This addresses significant environmental impacts throughout the supply chain. By collaborating to improve supplier sustainability practices, companies can effectively lower their overall carbon footprint. Aligning with global climate goals through supplier engagement enhances corporate reputation and prepares businesses for evolving regulatory landscapes. This proactive strategy ensures comprehensive emissions reduction and promotes sustainable business practices

High impact    Medium term

### 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

Enhancing visibility into the carbon footprint of your suppliers and integrating diverse eco-conditions into your purchasing policy can significantly reduce Scope 3 emissions over time. This approach can also serve as a catalyst, encouraging other industries to embark on their own decarbonization efforts.

### Estimated Cost

Variable depending on the resulting changes in the supply chain.

### Recommended Service Providers

Map the climate maturity of your supply chain: Understand your supplier climate actions and maturity with the Greenly Sustainable Procurement module

### Implementation

- 1** LAUNCH the Greenly Sustainable Survey to assess suppliers' climate maturity and align their practices with your sustainability goals
- 2** USE Greenly dashboards to track KPIs like supplier carbon assessments, alignment with Paris 2030 goals, and SBTi certification.
- 3** SUPPORT suppliers with tools, training, and resources. Recognize efforts and report their progress toward achieving objectives.



# 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.

High impact    Medium term

### 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.

Digital





# Embark on a “Responsible Digital” certification process

## Digital

The digital revolution has transformed our world, yet its environmental toll is significant. Accounting for 4% of global greenhouse gas emissions, the internet's impact on CO2e emissions is substantial. Data centers, devices, and networks demand massive energy consumption, predominantly fueled by fossil fuels. As digital dependence grows, so does its carbon footprint, urging a shift towards sustainable practices to mitigate its environmental impact.

Medium impact

Medium term

### Benchmark

Pierre Fabre has obtained the highest level of the Responsible Digital label, committing itself to continuous improvement in the environmental, social and economic aspects of digital technology. The label is accompanied by the use of labelled equipment (Epeat, Energy Star, Blue Anglet) and EcoVadis-certified suppliers.

### Estimated Impact

The Responsible Digital label can lead to significant reductions in GHG emissions for a company, ranging from tens to hundreds of tons of CO2e per year. This varies according to actions such as optimizing the energy consumption of data centers, reducing the energy consumption of digital devices, integrating social and environmental clauses into calls for tender, taking an inventory of the logiciles used and assessing their needs, etc.

### Estimated Cost

For Level 1: The MOOC is available free of charge. Price varies according to the size of the company, including training, a remote audit and a fee.  
For Level 2: Price varies according to company size, including training, initial and follow-up audits, and a fee.

### Recommended Service Providers

Label Numérique Responsable  
<https://label-nr.fr/#:~:text=Le%20num%C3%A9rique%20responsable%20est%20une,r%C3%A9duire%20l'impact%20du%20num%C3%A9rique.>

### Implementation

- 1 Join the responsible digital community and take the MOOC designed by the NR Institute.
- 2 Pass the responsible digital knowledge certification and identify actions to develop your NR commitment.
- 3 Get audited to obtain your score and recommendations for improvement.



# Improve the workload of the servers

## Digital

The average cloud server has a workload of 40%. Improving this workload to 60% can reduce the number of “physical” servers needed, hence their emissions. This can be achieved by sharing the resources between clients, or by smoothing load peaks. Savings are directly linked to the amount of server’s hour saved.

### Benchmark

AWS, GCP, Azure: Cloud providers offer services on-demand, sharing hardware between several customers. This leads to a higher average workload per server, and lower the number of servers needed for the same computation power used.  
Platform.sh: Platform.sh optimize the on-demand servers by sharing their power between even more customers, achieving a workload close to 100% on some services.

### Estimated Impact

Reduction potential: variable

### Estimated Cost

CAPEX: N/A  
YEARLY OPEX: Variable  
Time to ROI: N/A

### Recommended Service Providers

Platform.sh, Microsoft AZURE, Amazon Web Services (AWS), Google Cloud Platform (GCP)

Very high impact      Medium term

### Implementation

- 1 Assess cloud usage efficiency.
- 2 Compare reduction potential and incurred costs of workload optimization options.
- 3 Monitor and evaluate to ensure emissions reduction.

# Energy





# 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."

Low impact    Medium term

### 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.





# | Sublease the office space you are not using

## Energy

*Excessive office space per employee results in higher GHG emissions from energy consumption, including heating and electricity. With the rise of teleworking, office spaces often exceed the necessary capacity for employees present on a daily basis. By optimizing the amount of office space per employee through subleasing vacant areas, emissions associated with energy consumption can be effectively reduced.*

Low impact    Medium term

### Benchmark

Econocom : As part of their SBTi strategy, the international IT management solution Econocom aims to reduce their scope 1&2 emissions by cutting down on unused office space by renting it out. This could result in a 20% reduction of their direct and energy related emissions.

### Estimated Impact

Particularly impactful if your building electricity and heat is carbon intensive (reliance on carbon-intensive sources like natural gas).

### Estimated Cost

Additional revenue generated from subletting vacant office space.  
Reduction in energy costs due to the rationalization of office space per employee.

### Implementation

- 1** ESTABLISH and start monitoring your KPIs (ex. percentage reduction in energy consumption per occupant).
- 2** DETERMINE the amount of space that can be subleased given remote work policies. This may involve readjusting the configuration of office space.
- 3** ESTABLISH subleasing procedure to find tenants that align with your company's culture and habits.

# Food and Drinks





# Raise employees awareness on the carbon impact of different foods

## Food and drinks

*Raising awareness is essential for changing habits and reducing emissions. Awareness can motivate individuals to take action. It also creates a ripple effect by influencing not just individual behavior but also social norms and collective action. In the long run, the action plans you implement may be more easily supported by the employees.*

Not quantifiable      Short term

### Benchmark

92% of IKEA's employees have gone through a sustainability training, focusing on how to live a more sustainable life as a human being, and what, as a company, they are doing to contribute to a better world.

### Estimated Impact

If the impact of raising awareness is not direct, it allows other action plans to be more easily and effectively implemented.

### Estimated Cost

Overall, the cost is low, and depends on the type of actions taken.

### Implementation

- 1** DEVELOP educational resources that explain the carbon footprint of various foods (infographics, brochures, presentations, interactive online modules...).
- 2** ORGANIZE educational events, such as workshops, vegetarian cooking sessions, and lunch-and-learn sessions. Highlight success stories, interesting facts, and tips for making sustainable food choices.
- 3** ENCOURAGE participation and MEASURE and CELEBRATE progress. Create incentives or challenges to encourage employees to actively engage employees. For example, you could implement a "Meatless Monday" campaign and provide small rewards or recognition for participation.



# Choose vegetarian meal in restaurants

## Food and drinks

At the restaurant, opting for vegetarian option. Choosing labeled establishments allows you to verify their dedication to sustainable practices, including the use of seasonal and local ingredients, provision of vegetarian options, and implementation of measures to reduce energy consumption and waste. International labels are listed in the Recommended service providers section of this slide.

### Benchmark

Google's Food@Work program includes partnerships with local and sustainable suppliers. Many companies are also adopting certified catering options, particularly for business events.

Greenly has introduced a policy for company-funded meals (team restaurants, seminars): they will now be exclusively vegetarian or vegan, following an employee awareness-raising campaign on the carbon impact of different foods.

### Estimated Impact

Variable carbon impact depending on the resulting changes in practices (percentage increase in vegetarian and locally-sourced meals consumed by employees, and other environmental measures applied by the restaurant).

### Estimated Cost

Labelled restaurants are not necessarily more expensive than conventional ones, but this depends on the restaurants available locally.

### Recommended Service Providers

The sustainable restaurant association  
Zerofoodprint  
Ecocook

Medium impact

Medium term

### Implementation

- 1** ESTABLISH and start monitoring your KPIs (ex. percentage of restaurant meals consumed in partnered or labeled establishments).
- 2** SELECT and partner with labeled establishments that align with your sustainability goals. You can use our non-exhaustive service provider list.
- 3** PROMOTE these establishments among your employees and favor them when organizing company events.

# Product purchases





# 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

Medium impact

Medium term

### 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.



# 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.

Medium impact      Long term

### 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.



# Conclusion





## | Conclusion

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

### The recommended next steps in Tuyan, LLC'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.





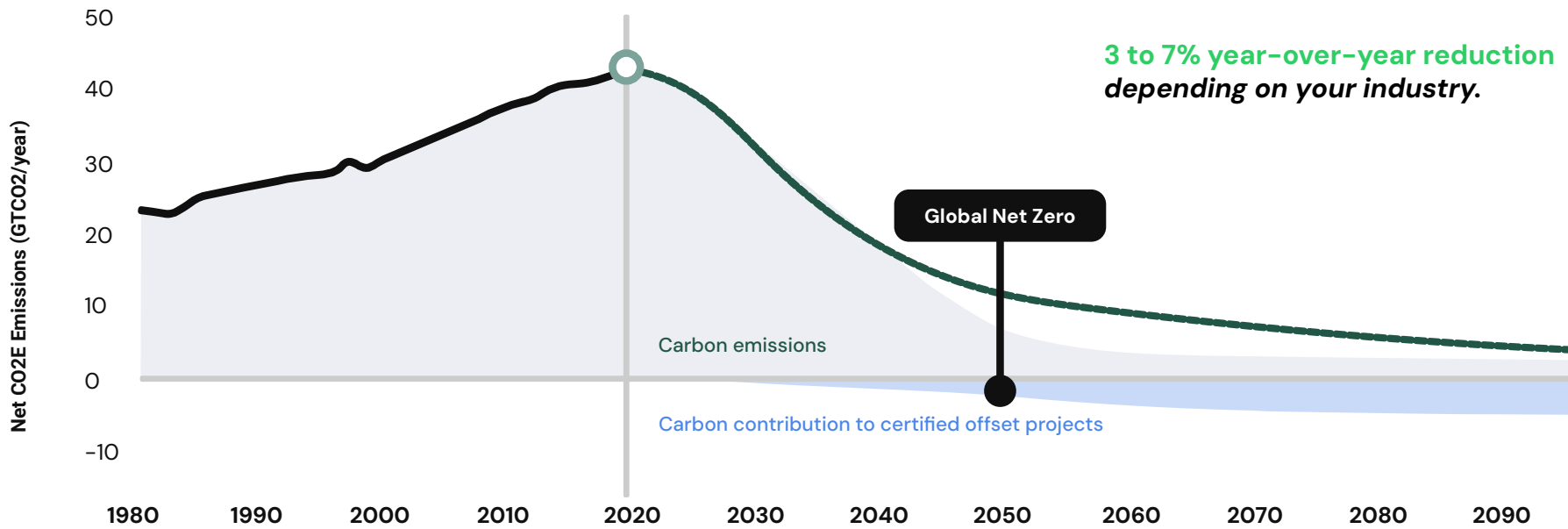
# What's next?



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# Committing to a multi-year decarbonization strategy

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



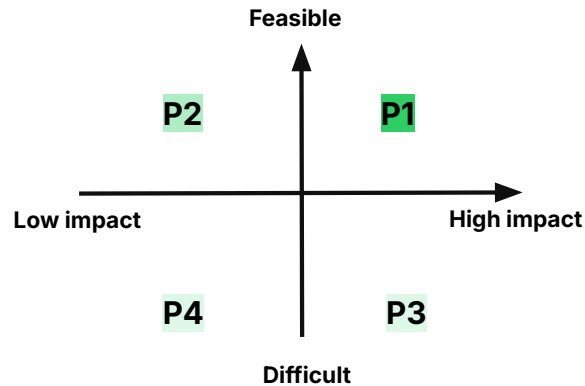
# How can I build my reduction trajectory?

THE 4 KEY STAGES IN DEFINING AND FOLLOWING YOUR TRAJECTORY

## Refine your greenhouse gas emissions assessment

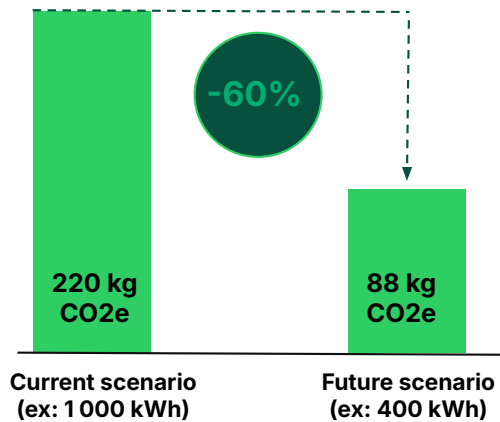
Your 2023 assessment is based on **48%** of physical data, the rest being financial data. We recommend that you regularly improve the accuracy of your greenhouse gas assessment by adding more physical data. You will be able to quantify and monitor your reductions with precise targets in km, kg, kWh, etc.

### Prioritize your actions



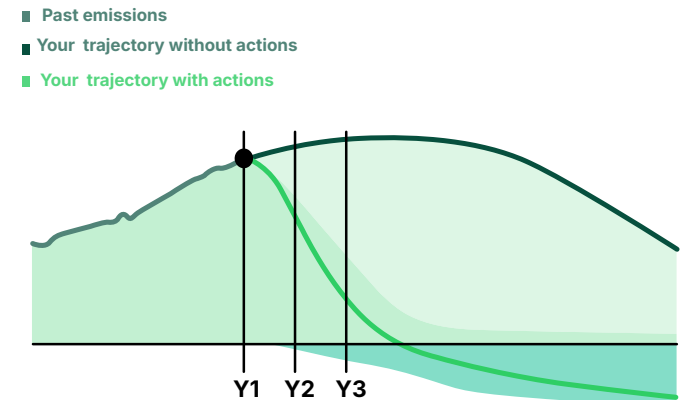
Place your actions on the matrix after identifying operational constraints in consultation with your teams.

### 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

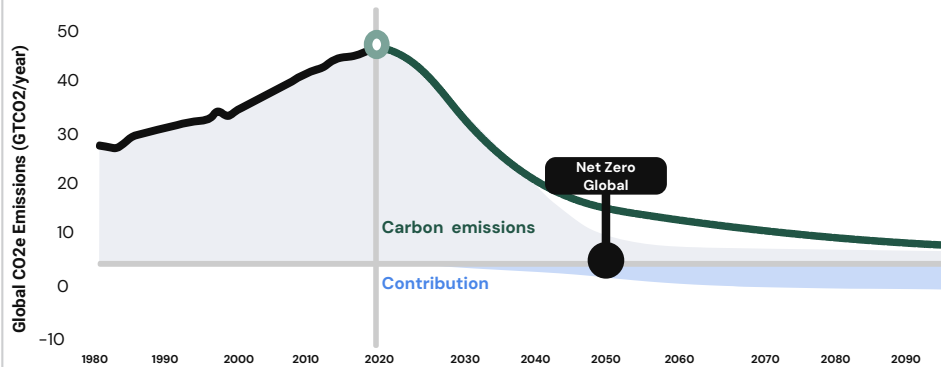
 [Carbon contribution](#)

# 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

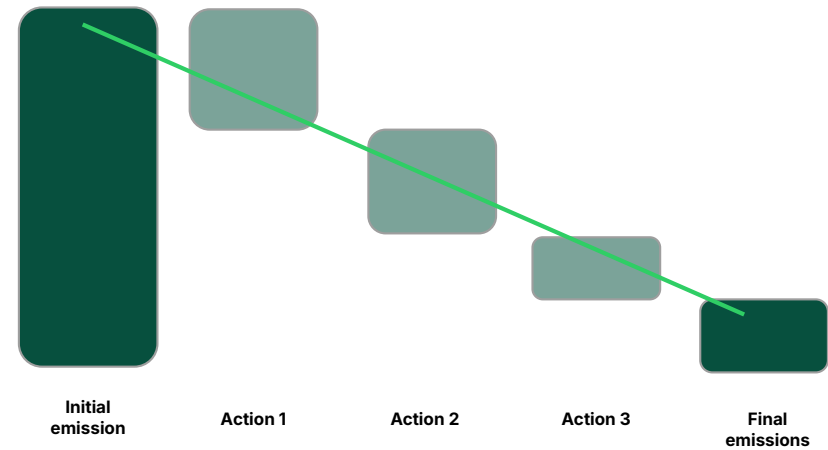
## Paris Agreement Objective

-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**

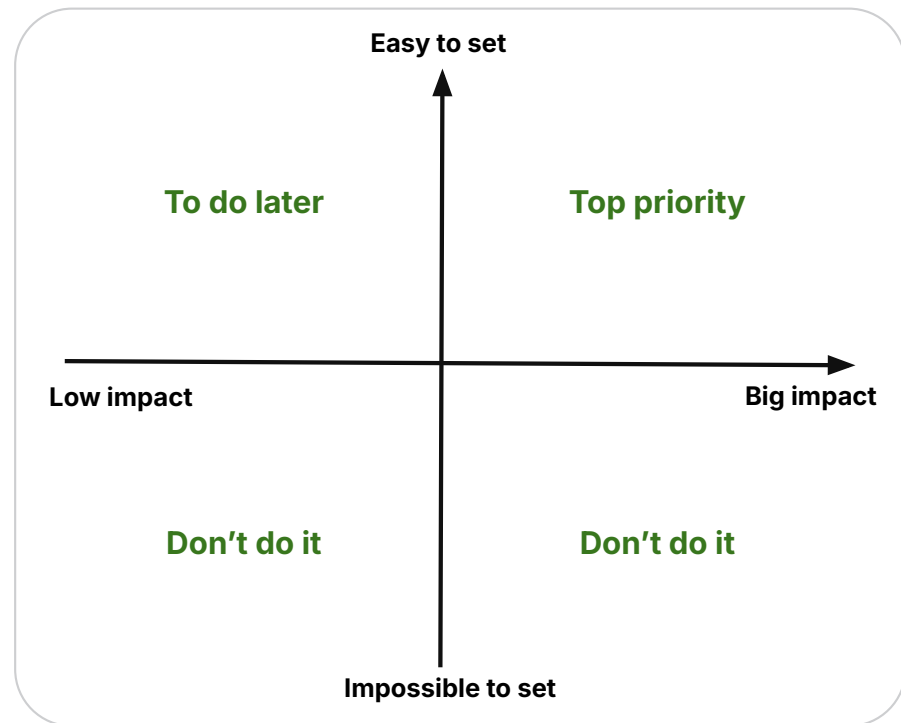
Bring together the stakeholders in your climate strategy

**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



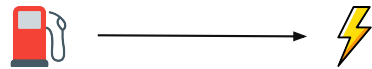
# Build Your Carbon Reduction Trajectory

3 KEY STEPS TO BUILD YOUR TRAJECTORY

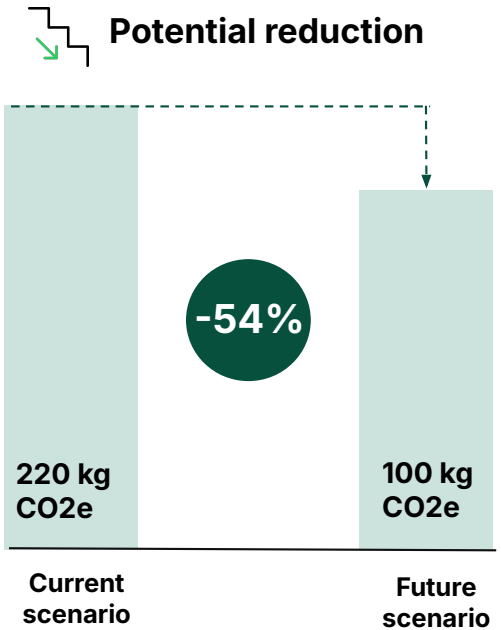
Prioritize your actions

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





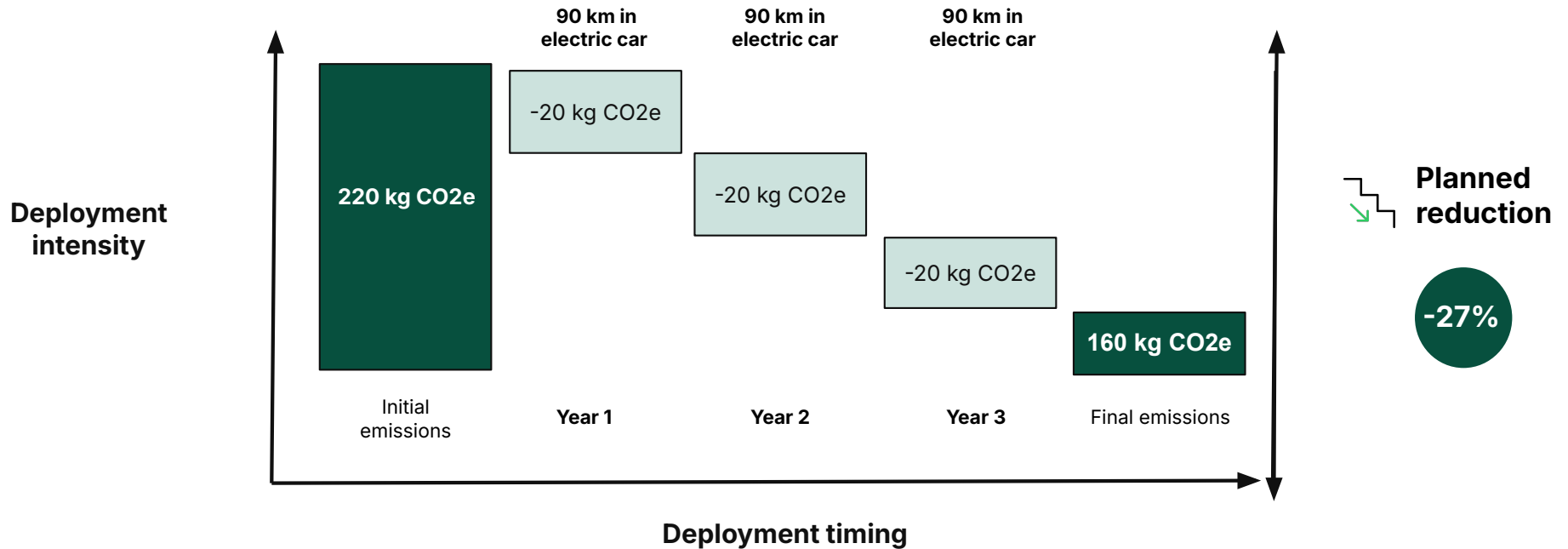
# Build Your Carbon Reduction Trajectory

3 KEY STEPS TO BUILD YOUR TRAJECTORY

Prioritize your actions

Calculate their reduction potential

Optimize your trajectory

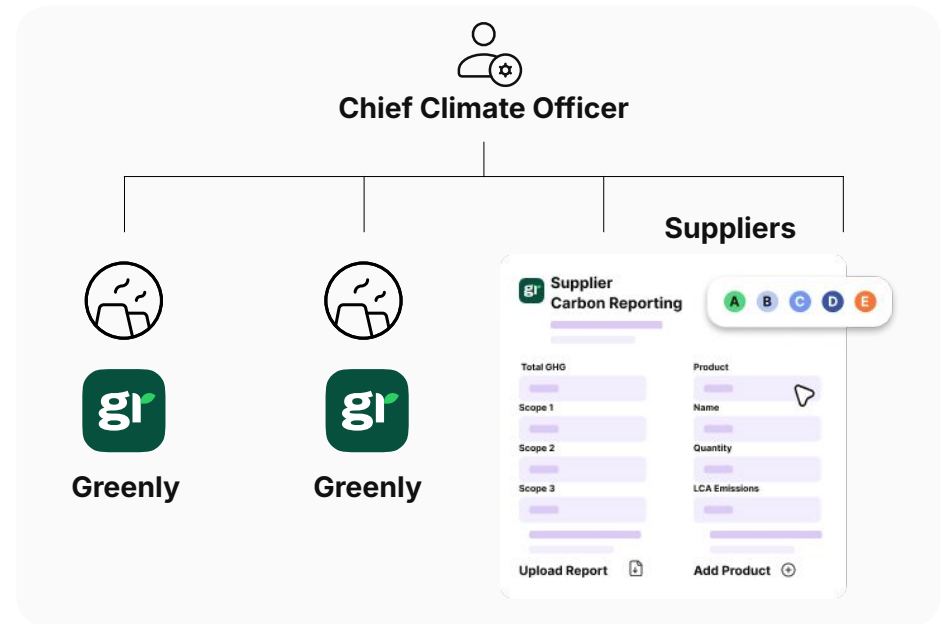
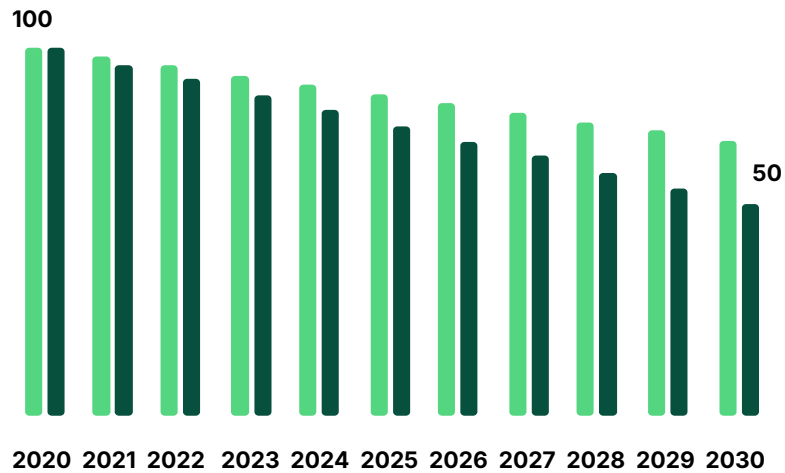


# Engaging suppliers to align with the company's Net Zero targets

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  $\geq$  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 Tuyan, LLC is 51 points

Points are distributed as follows:

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

Action plans: **17/36**

Climate targets: **0/4**

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](#)

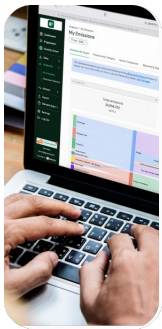
Statistics were computed on the Greenly supplier database



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# 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

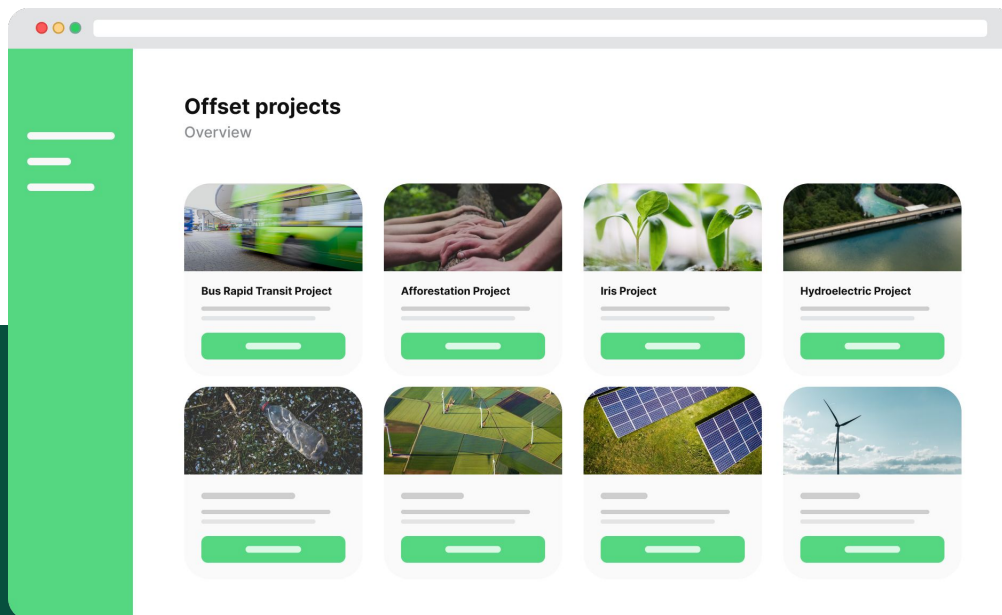
And more..

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 than what your organization is emitting

LABEL BAS  
CARBONE

reverse

Gold Standard

TUYAN  
LLC

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# 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 TEVA Schlumberger

Tech

alma ZOOPLA TripAdvisor PayFit Konbini

Retail

bel for all for good COURIR LVMH P&G PERNOD RICARD

Services

ACCOR Capgemini Kea Partners for transformation Mediametrie econocom

Finance

COATUE Shell Ventures AXA EIFFEL INVESTMENT GROUP BNP PARIBAS



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# Appendix



# Scope 1&2



Scope	Name	tCO2e
1.1	Generation of electricity, heat or steam	0.009
1.2	Transportation of materials, products, waste, and employees	0.4
1.3	Physical or chemical processing	-
1.4	Fugitive emissions	-
2.1	Electricity related indirect emissions	2
2.2	Steam, heat and cooling related indirect emissions	-

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



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# Scope 3

100% accounted



Scope	Name	tCO2e
3.1	Purchased goods and services	12
3.2	Capital goods	0
3.3	Fuel- and energy- related activities not included in Scope 1 or Scope 2	0.4
3.4	Upstream transportation and distribution	-
3.5	Waste generated in operations	-
3.6	Business travel	13
3.7	Employee commuting	0.1
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	0
3.14	Franchises	-
3.15	Investments	-
4.1	Other emissions - Emissions from biomass (soil and forests)	-



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# Scope 1&2



Scope	tCO2e	tCO2b	CO2f*	CH4f*	CH4b*	N2O*	Other GHGs*
1.1	0.009	0	0.009	0.0005	0	0.000004	0
1.2	0.4	0	0.3	0.04	0.009	0.08	0
1.3	-	-	-	-	-	-	-
1.4	-	-	-	-	-	-	-
2.1	2	0	1	0.08	0.08	0.08	0
2.2	-	-	-	-	-	-	-

\* Results expressed in tons of CO2e



# Scope 3



Scope	tCO2e	tCO2b	CO2f*	CH4f*	CH4b*	N2O*	Other GHGs*
3.1	12	0	10	1	0	0.4	0.2
3.2	0	0	0	0	0	0	0
3.3	0.4	0	0.3	0.09	0.006	0.04	0
3.4	-	-	-	-	-	-	-
3.5	-	-	-	-	-	-	-
3.6	13	0	11	0.9	0	0.8	0
3.7	0.1	0	0.1	0.01	0.005	0.008	0.009
3.8	-	-	-	-	-	-	-
3.9	-	-	-	-	-	-	-
3.10	-	-	-	-	-	-	-
3.11	-	-	-	-	-	-	-
3.12	-	-	-	-	-	-	-
3.13	0	0	0	0	0	0	0
3.14	-	-	-	-	-	-	-
3.15	-	-	-	-	-	-	-
4.1	-	-	-	-	-	-	-

\* Results expressed in tons of CO2e



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