

Carbon footprint 2023

Restitution meeting

December 17th, 2024

TD techdesign

ecoact

Introduction EcoAct Team



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AGENDA

→ 1. INTRODUCTION

- ∞ Reminder of the context
- ∞ Methodological reminders

2. GLOBAL RESULTS

- ∞ Focus on main categories
- ∞ Results by customer

3. CONCLUSION & RECOMMENDATIONS



Reminder of the context

Background and motivation

Customer engagement

Tech Design was contacted by one of its main customers, the **LVMH Group**, and required to *disclose the Carbon Footprint* related to its company and sales products.



Increasing climate commitments

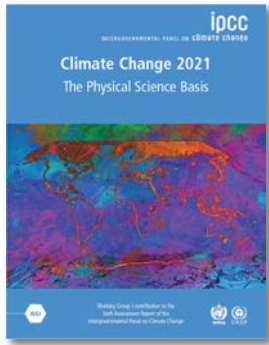
Several large companies, especially in more regulated markets (like the EU and the US) are taking **strong commitments** to reduce their carbon impact. For example, the **LVMH Group committed to reducing** its Scope 1 and 2 **emissions 50%** by 2026 (vs 2019) and its Scope 3 **emission intensity 55%** per M€ value added by 2030 (vs 2019).



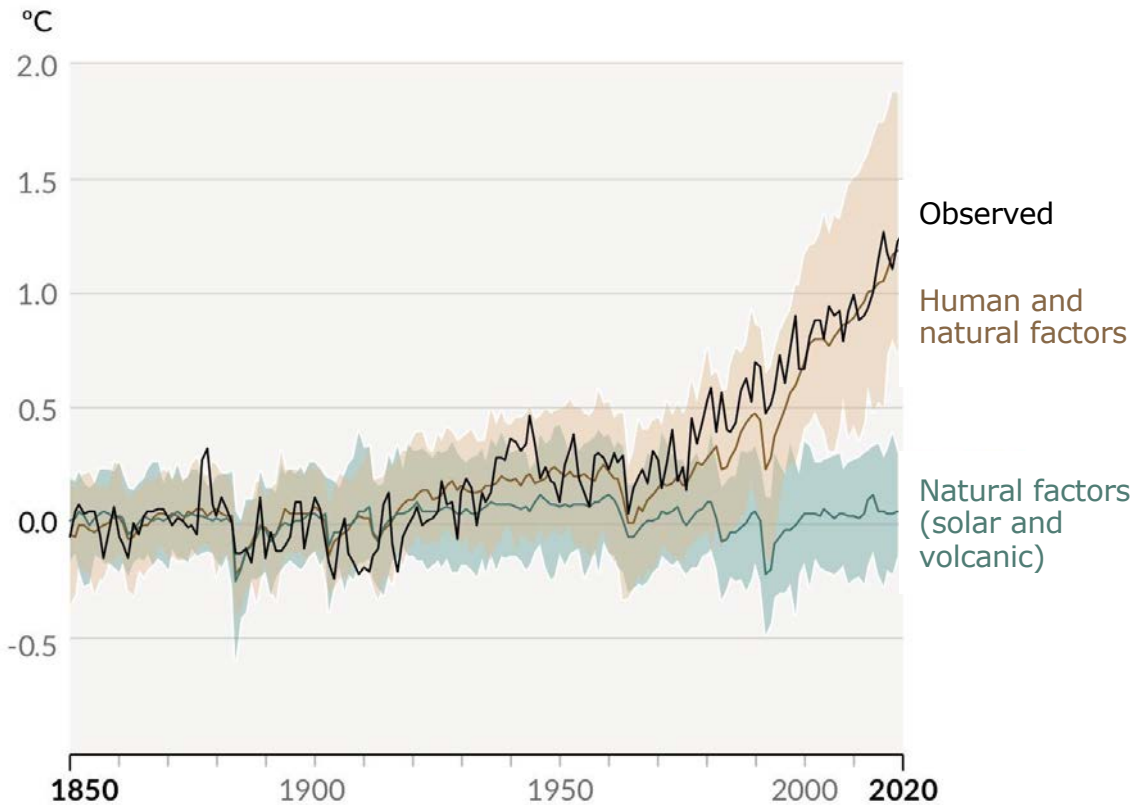
Tackling emission from the supply chain

As most of the emissions are often generated *along a company's supply chain*, **engaging own suppliers to measure and reduce their own emissions** is a fundamental pillar of each company's strategy. **Meeting your customer expectations is therefore vital to preserve your business and stay competitive.**

Human activities are the sole cause of current climate disruption



Change in global surface temperature (annual average) as observed and simulated

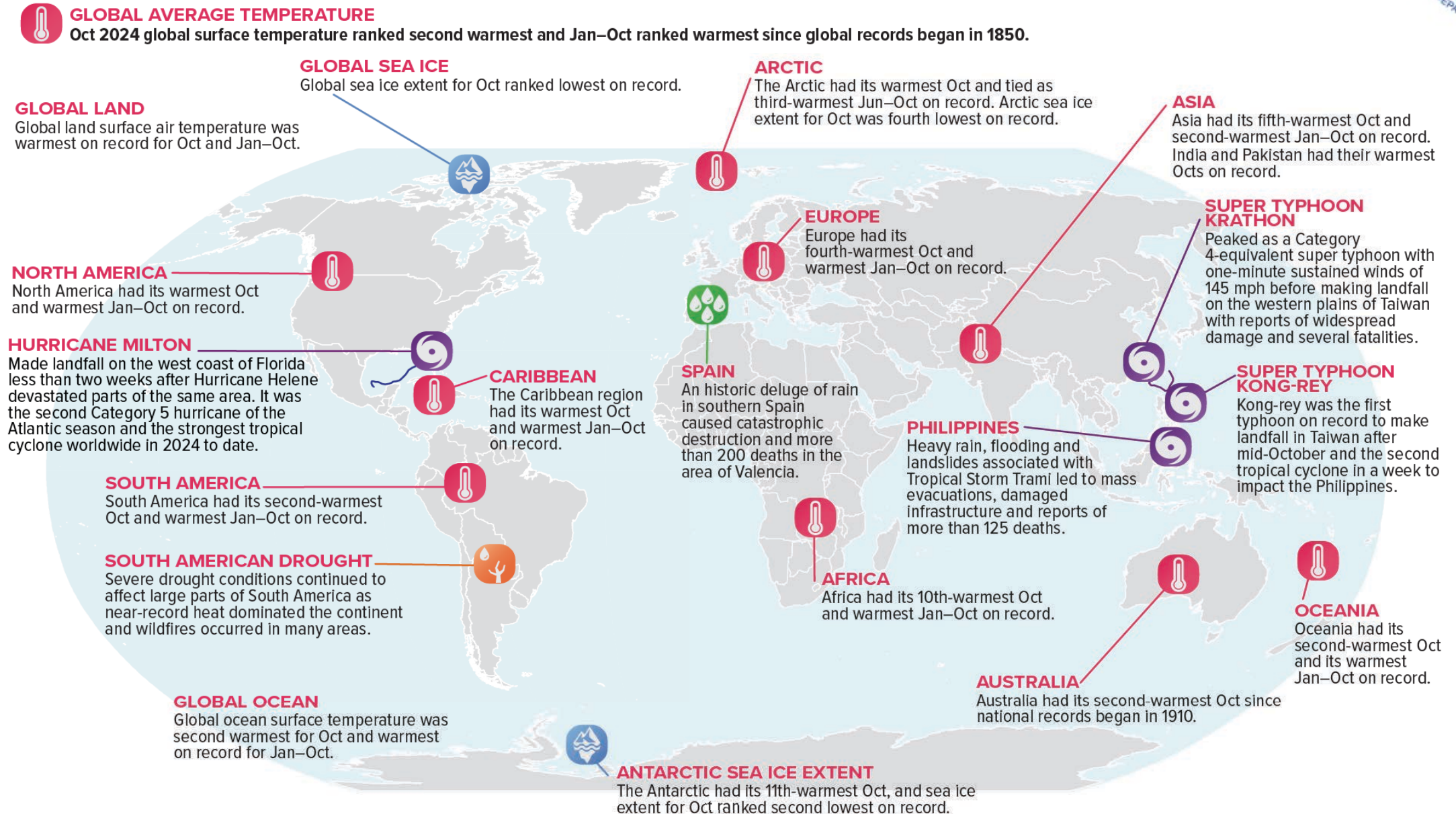


“There's **no doubt** that human activity is at the root of climate change, making extreme weather events **more frequent** and **more severe**.”

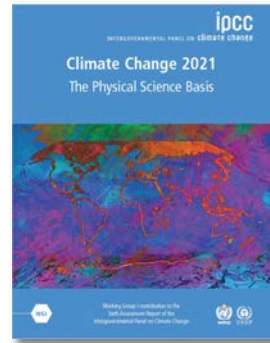
IPCC, 6th Assessment Report, 2021

Climate change is already impacting us

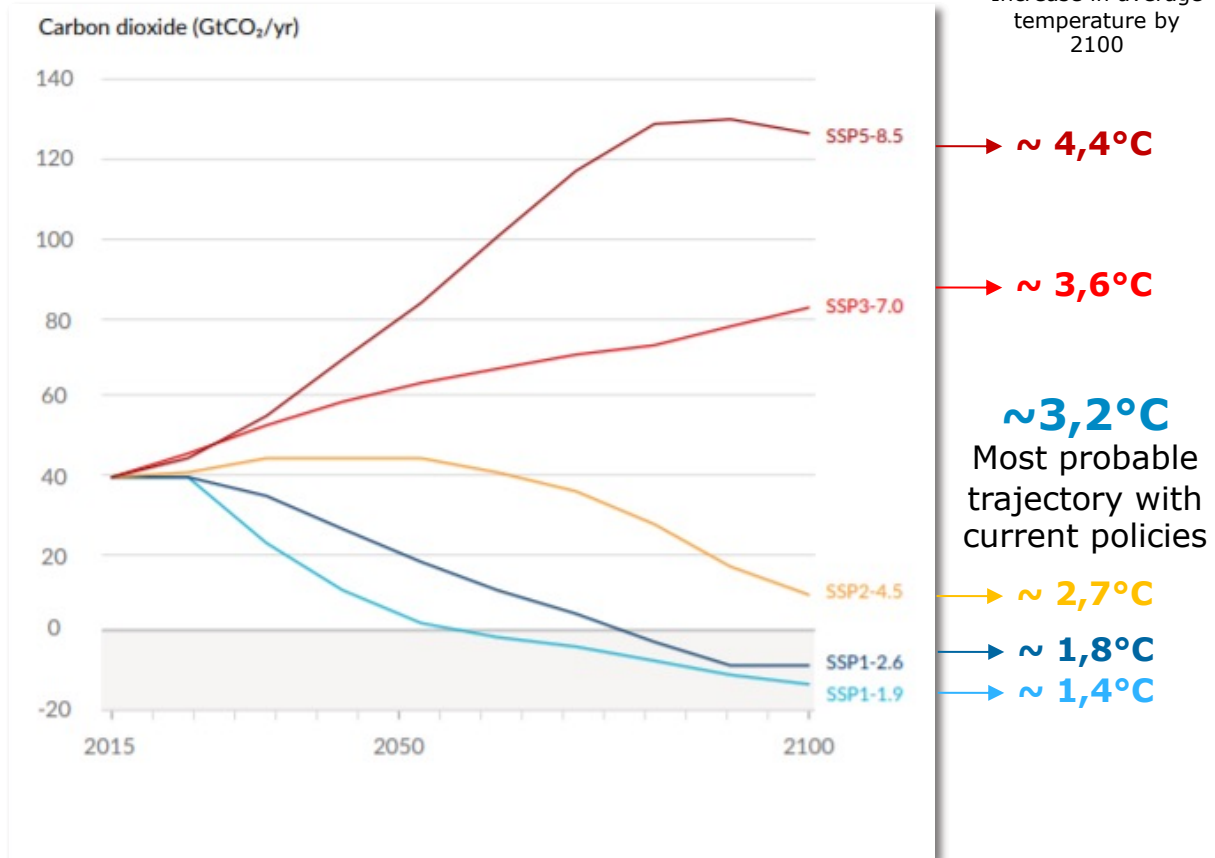
Global extreme events in October 2024



Trajectories and scenarios



Possible scenarios of warming by 2100



Stopping climate change is still possible by achieving carbon neutrality

- Many changes due to past GHG emissions are **irreversible for centuries/millennia** (ocean acidification, melting ice caps, etc.);
- However, some **changes can be slowed down and others stopped by limiting global warming** through an **immediate and drastic reduction in GHG emissions**;
- Future cumulative CO₂ emissions vary from one scenario to another and determine the extent of warming we will experience. The future is in our hands!
- Global GHG emissions are expected to **peak between 2020 and 2025** (at the latest) in pathways that limit warming to 1.5°C or 2°C.

3 Fundamental pillars of your climate carbon strategy



MEASURE

Assess your current impact in terms of GHG emissions.



SET TARGETS

Commit to emission reduction targets aligned with science.



REDUCE

Take ambitious action to achieve your targets.

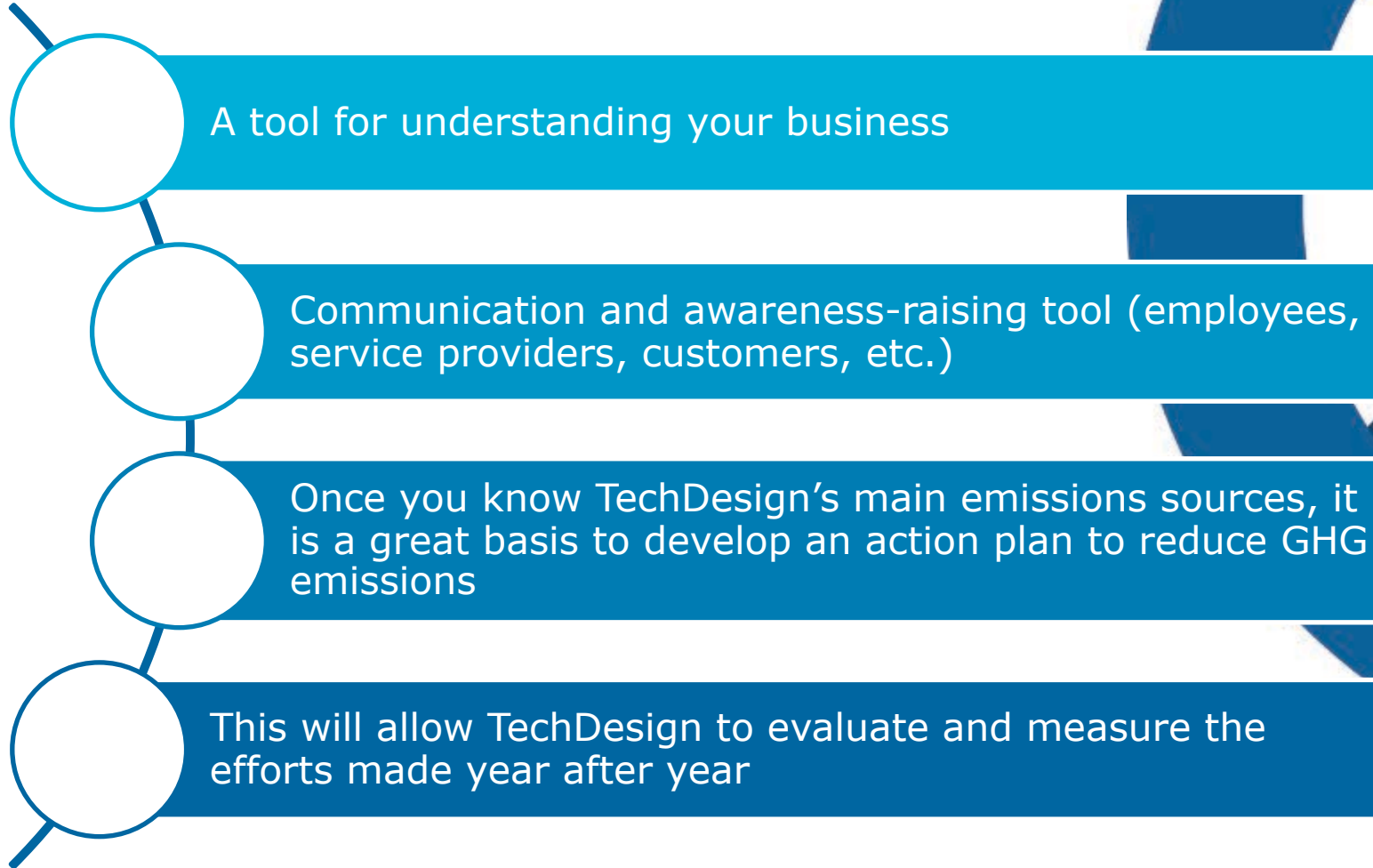
***“If you can’t measure it,
you can’t improve it.”***

Peter Drucker



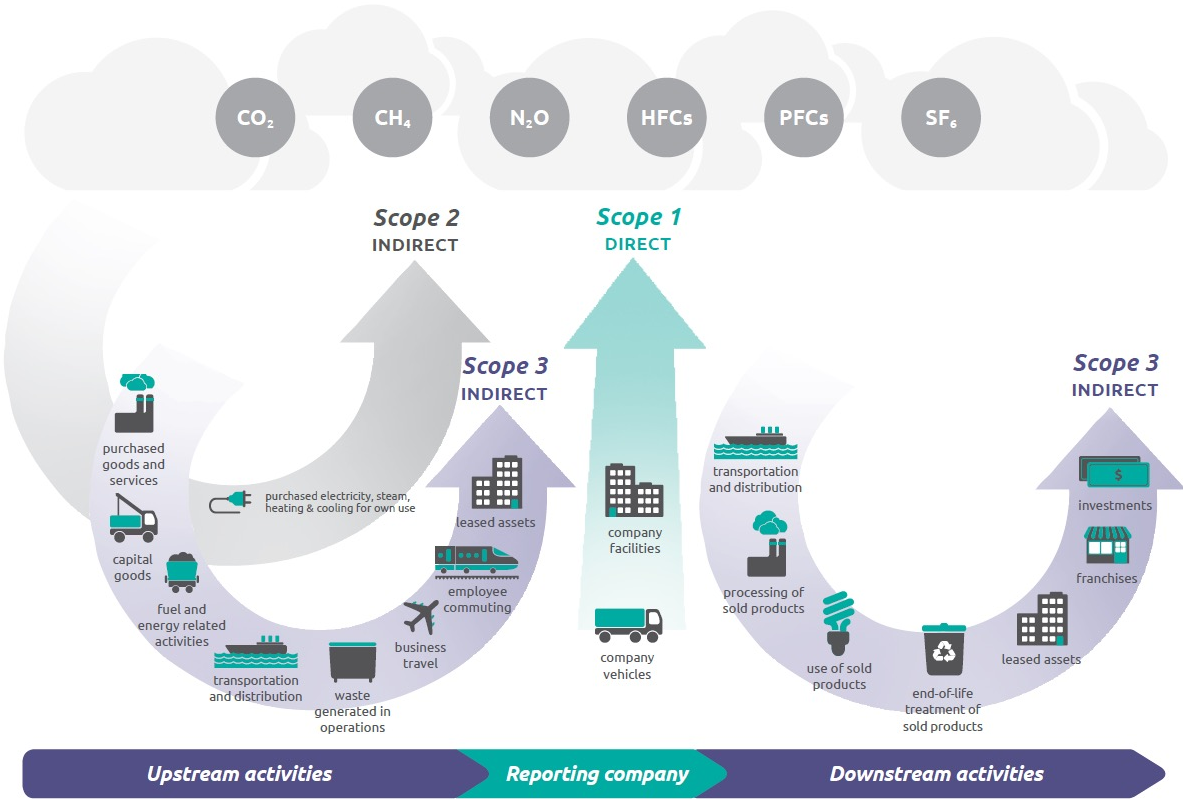
Methodological reminders

The benefits of measuring your carbon footprints

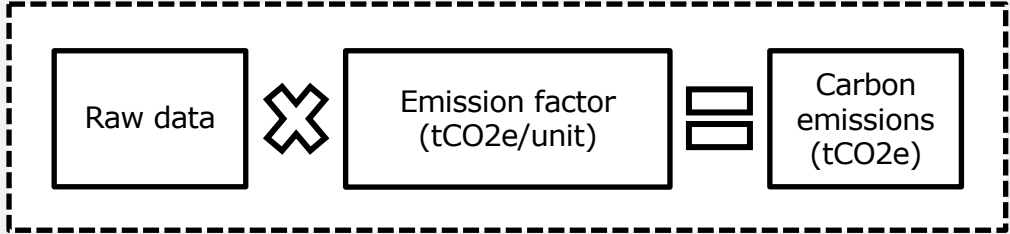


GHG Protocol

Methodology

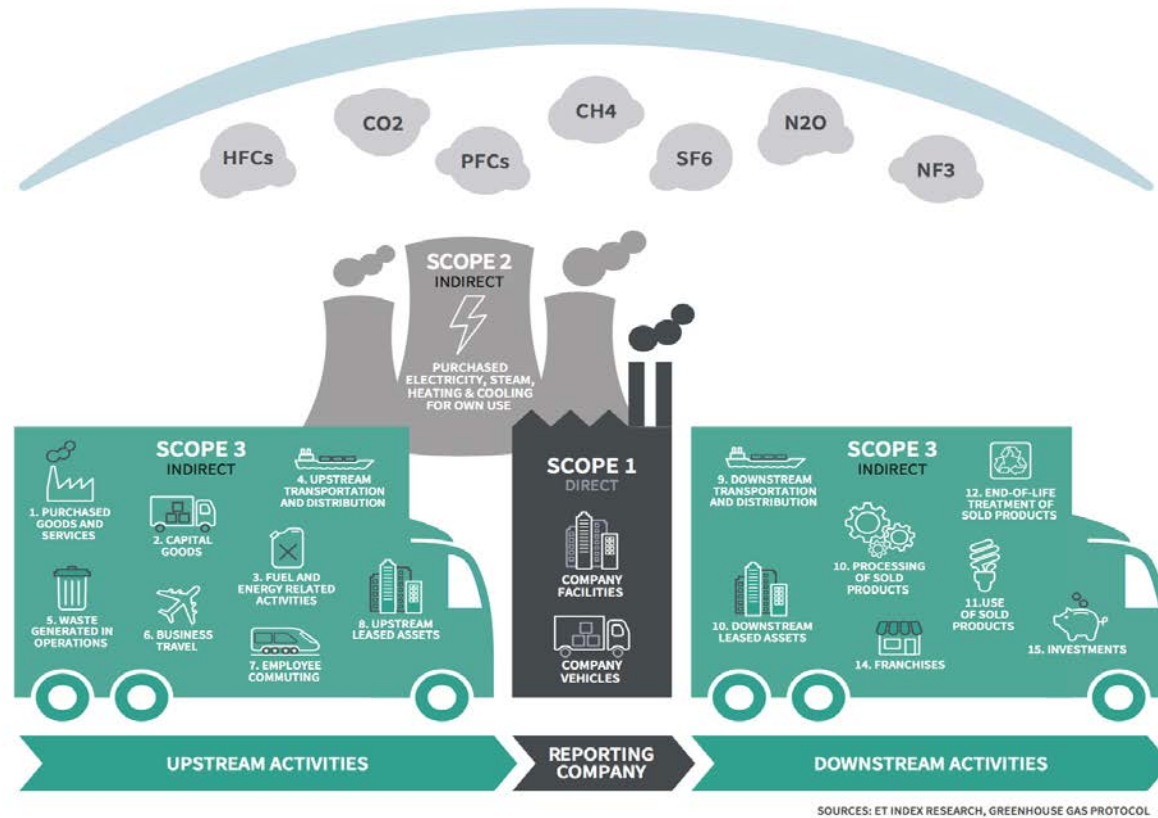


- 1 Collection of raw data**
Example: electricity consumption (kWh)
- 2 Conversion of your data into emissions using emission factors (EF)**
Example: emissions related to electricity consumption in France (kgCO₂e/kWh)
- 3 Consolidation and presentation of emissions by emission categories and by entities**
Example: "Energy" emissions (tCO₂e)



Source: GHG Protocol (2011). Corporate Value Chain (Scope 3) Accounting and Reporting Standard

The GHG Protocol



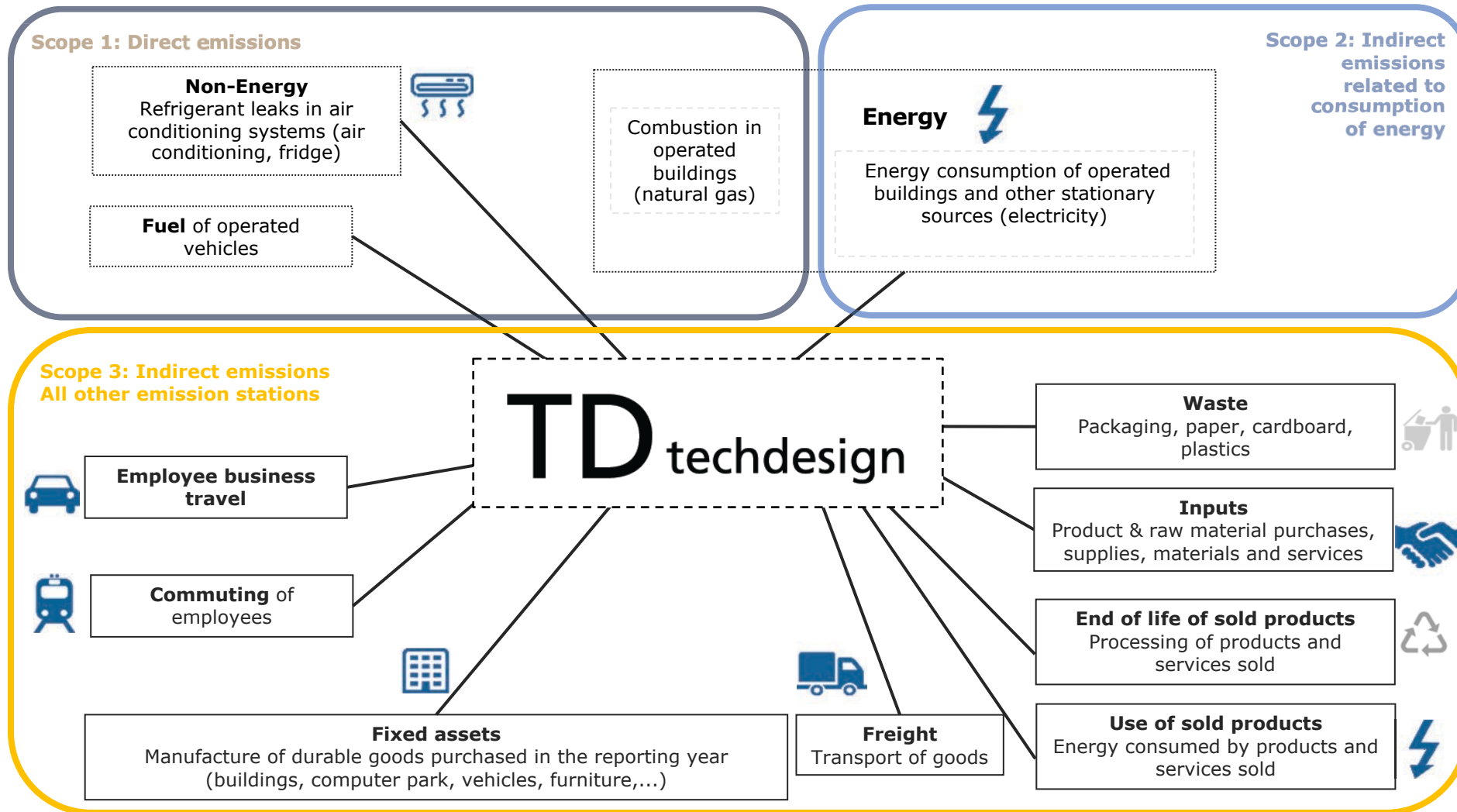
The emissions are divided into 3 scopes :

- **Scope 1:** direct emissions from fixed or mobile installations of your organizational perimeter : consumption of fossil energies (gas, fuel) for industrial activities and vehicles, refrigerant leaks of your air-conditioning equipment.
- **Scope 2:** indirect emissions associated with the consumption of electricity, heat or steam imported for the company's activities, or the heating of your offices.
- **Scope 3 :** other indirect emissions produced by the company's activities that are not accounted for in Scope 2 but are linked to the entire value chain

This concerns both upstream and downstream activities

Scope of the study

Operational perimeter



Scope of the study

Temporal and organizational perimeter



- ✓ **Temporal perimeter:** 1st January 2023 to 31st December 2023
- ✓ The study is conducted under the **location-based methodology**
- ✓ **Organizational perimeter:** under the **operational control approach**, all entities which Tech Design has the power to influence business decisions of (i.e., has operational control on) are included. For Tech Design, the perimeter includes:
 - ✓ **Shanghai office:** It currently operates for the Chinese domestic market and responsible for design, proposal, and sales
 - ✓ **Dongguan office:** Responsible for all markets, product development and operation
 - ✓ **Paris office:** For international markets other than China and responsible for design, proposal, and sales

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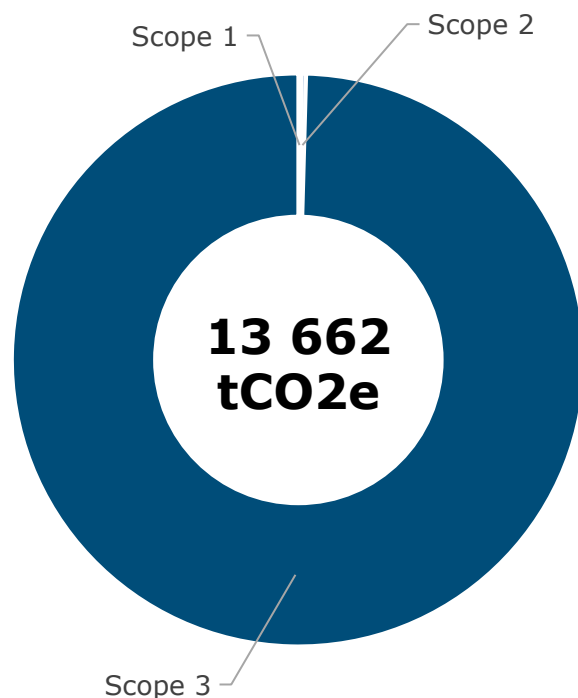
3. CONCLUSION & RECOMMENDATIONS



Global results

GHG Protocol 2023 – Overall Results

Overall Results by Scope



The 3 scopes of the GHG Protocol



Scope 1 (22 tCO2e)

Direct emissions

Energy consumption of buildings and operated vehicles



Scope 2 (36 tCO2e)

Indirect emissions associated with energy

Electricity



Scope 3 (13 604 tCO2e)

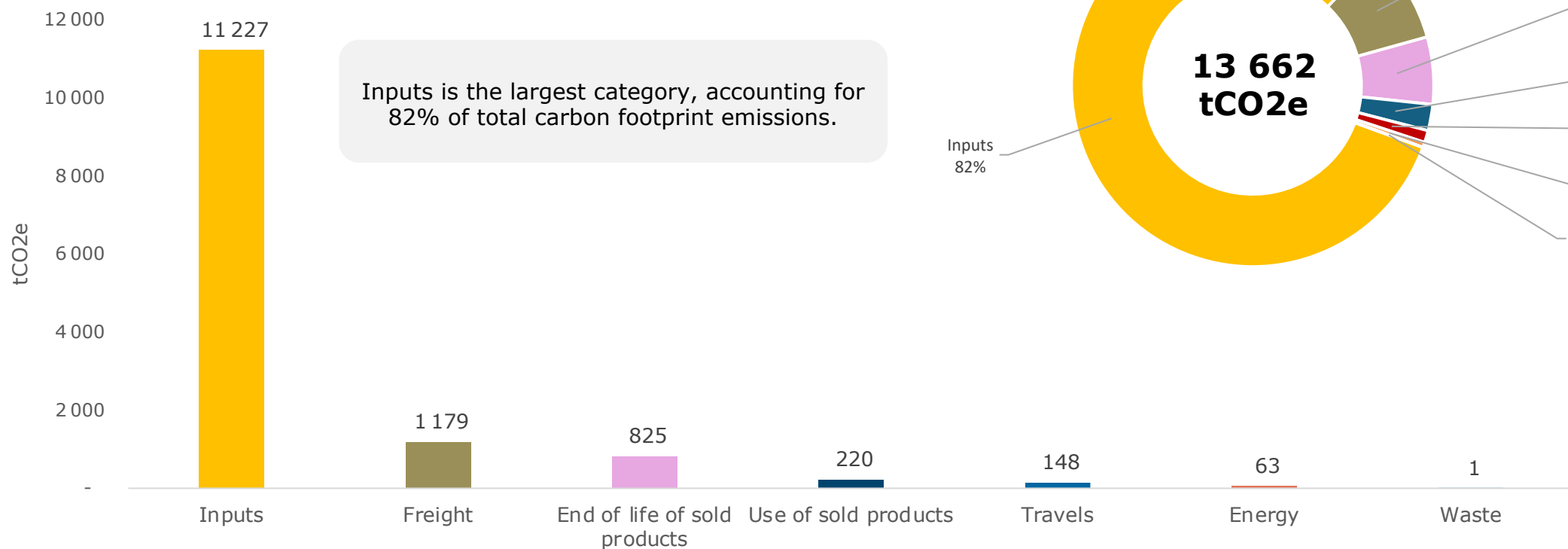
Other indirect emissions

Purchases of goods and services, use and end-of-life of sold products, freight, travels, waste

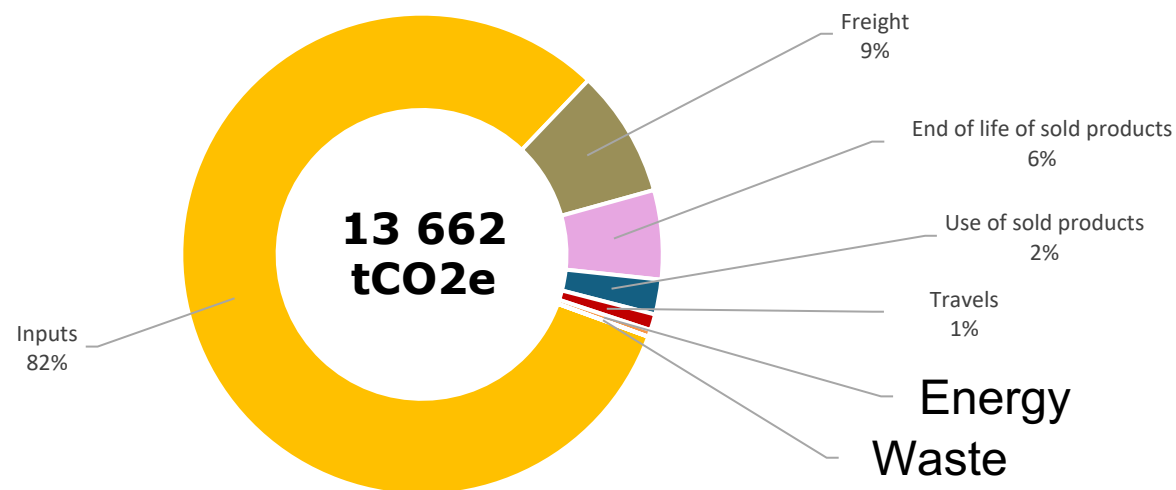
GHG Protocol 2023 – Overall Results

Overall Results by emission category

13 662 tCO₂e
GHG 2023 – TechDesign



Breakdown of emissions by category

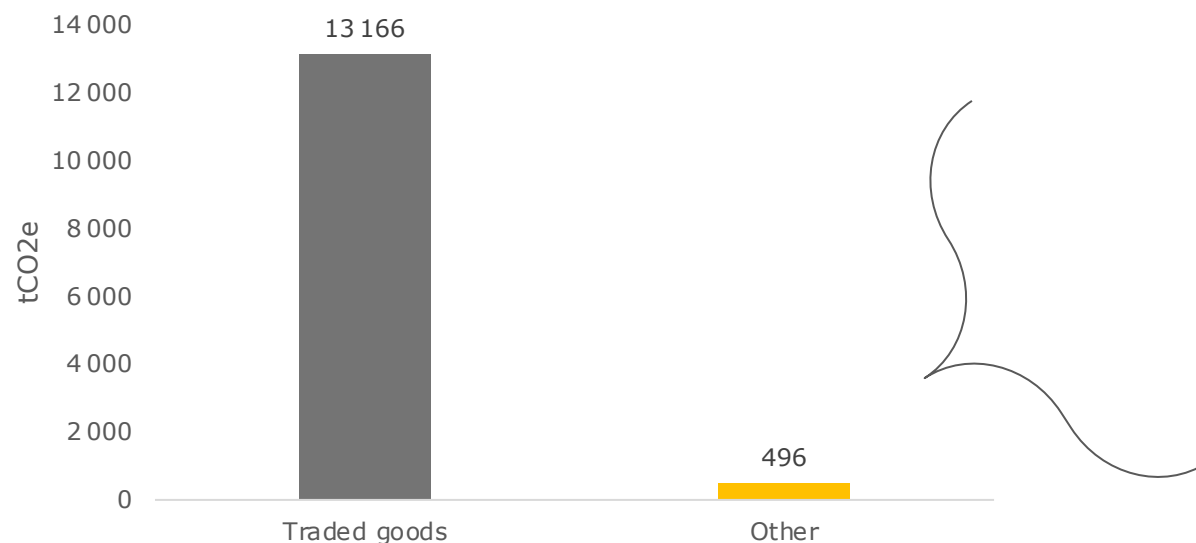


GHG Protocol 2023 – Overall Results

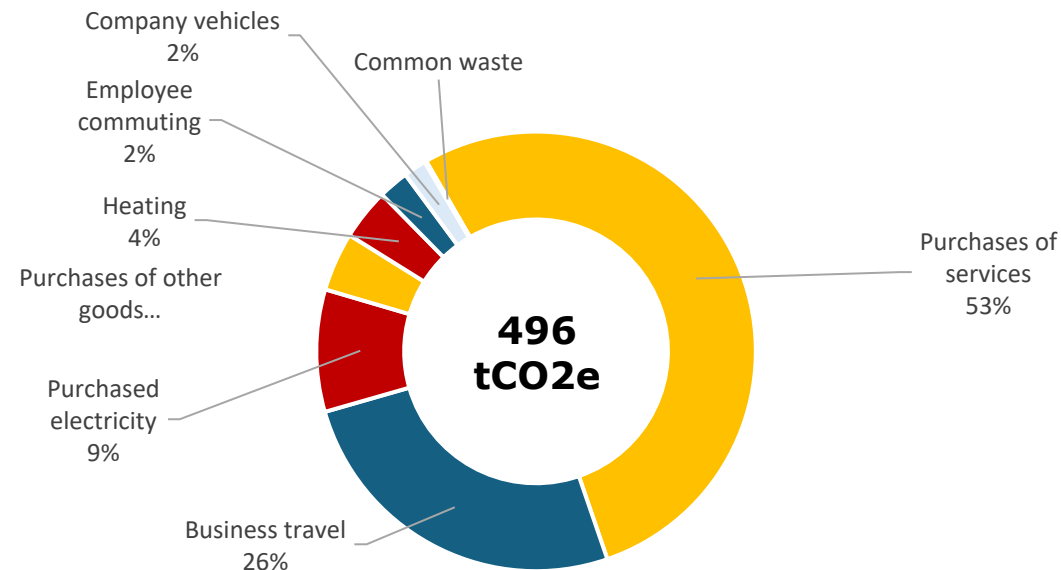
Overall Results by emission category

13 662 tCO₂e
GHG 2023 – TechDesign

Breakdown of emissions associated to traded goods and other emissions



Other emissions by sub-category, excluding those associated to traded goods



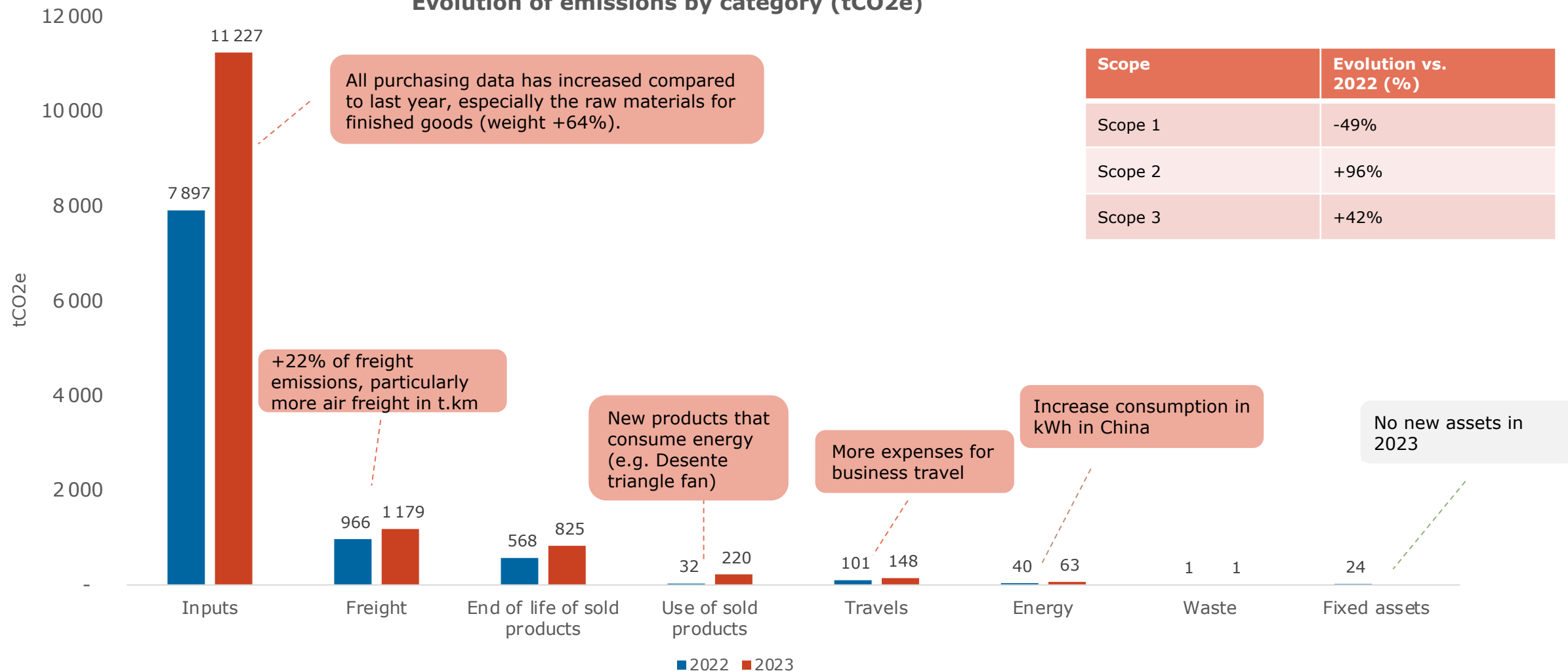
Emissions excluding traded goods represent 4% of TD's footprint. They are mostly linked to purchased services (53%), business travel (26%) and electricity (9%).

Categories related to traded goods include purchased goods, freight, use of sold products, and end-of-life.

GHG Protocol 2023 vs 2022 – Overall Results

Emission comparison by category

Evolution of emissions by category (tCO2e)



Scope	Evolution vs. 2022 (%)
Scope 1	-49%
Scope 2	+96%
Scope 3	+42%

GHG Protocol 2023

Summary of emissions by category



GHG Category	Emissions 2022 (tCO ₂ e)	Emissions 2023 (tCO ₂ e)
1.1 Direct Emissions from Stationary Combustion Sources	16	16
1.2 Direct Emissions from Mobile Combustion Sources	28	7
2.1 Indirect emissions from electricity consumption	18	36
3.1 Purchased Goods and Services	7 897	11 227
3.2 Capital Goods	24	-
3.3 Fuel. and.energy.related activities (not included in Scope 1 or Scope 2)	12	14
3.4 Upstream transportation and distribution	966	801
3.5 Waste generated in operations	1	1
3.6 Business travel	49	128
3.7 Employee commuting	18	11
3.9 Downstream transportation and distribution	-	377
3.11 Use of sold products	32	220
3.12 End of life treatment of sold products	568	825
Total	9 629	13 662

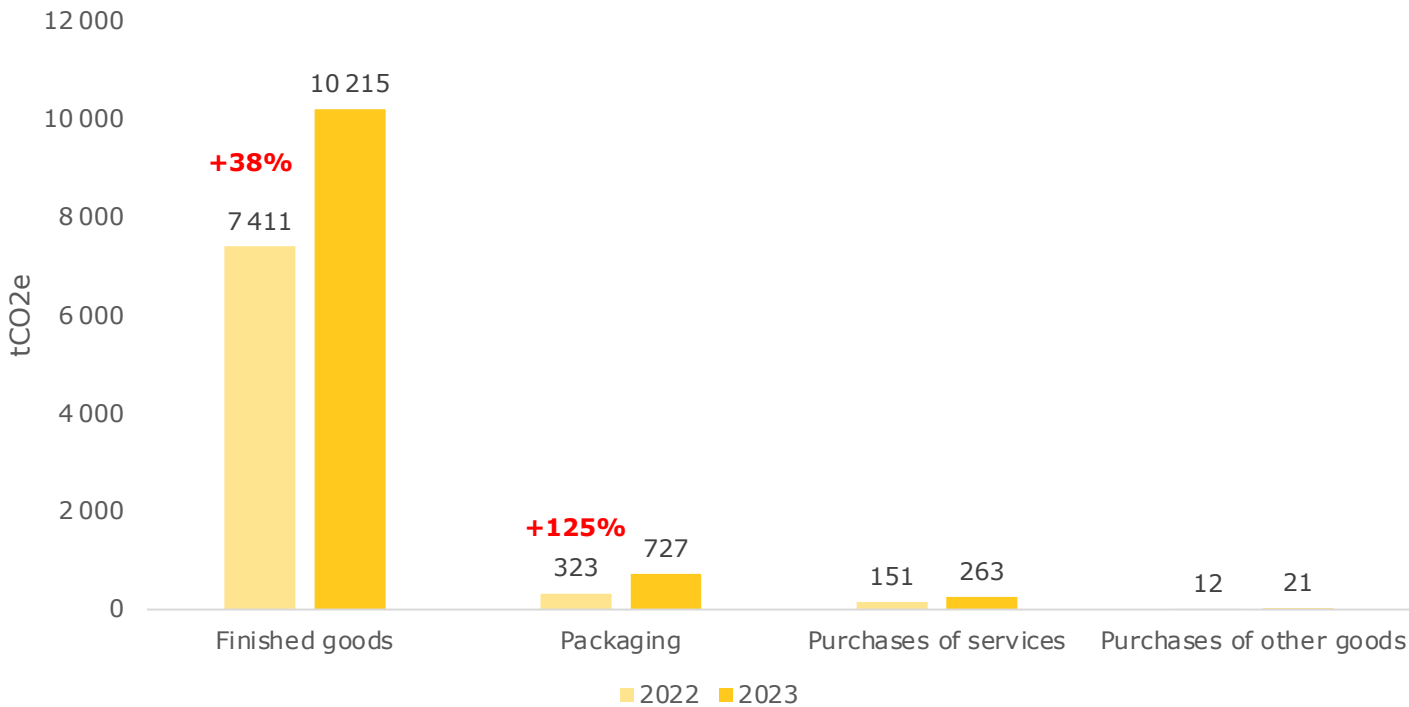
Inputs



GHG 2023 – Inputs

82% of GHG – 11 227 tCO2

Breakdown of input-related emissions (tCO2eq)



Methodology

Scope:

All material and non-material (services) short-life purchases made in 2023

Calculation methodology:

For packaging and raw materials, data have been received in kg.

General informations	2023	Evolution vs. 2022 (%)
Total volume of finished goods (kg)	1 374 307	+64%
Total items purchased	22 632 520	+14%

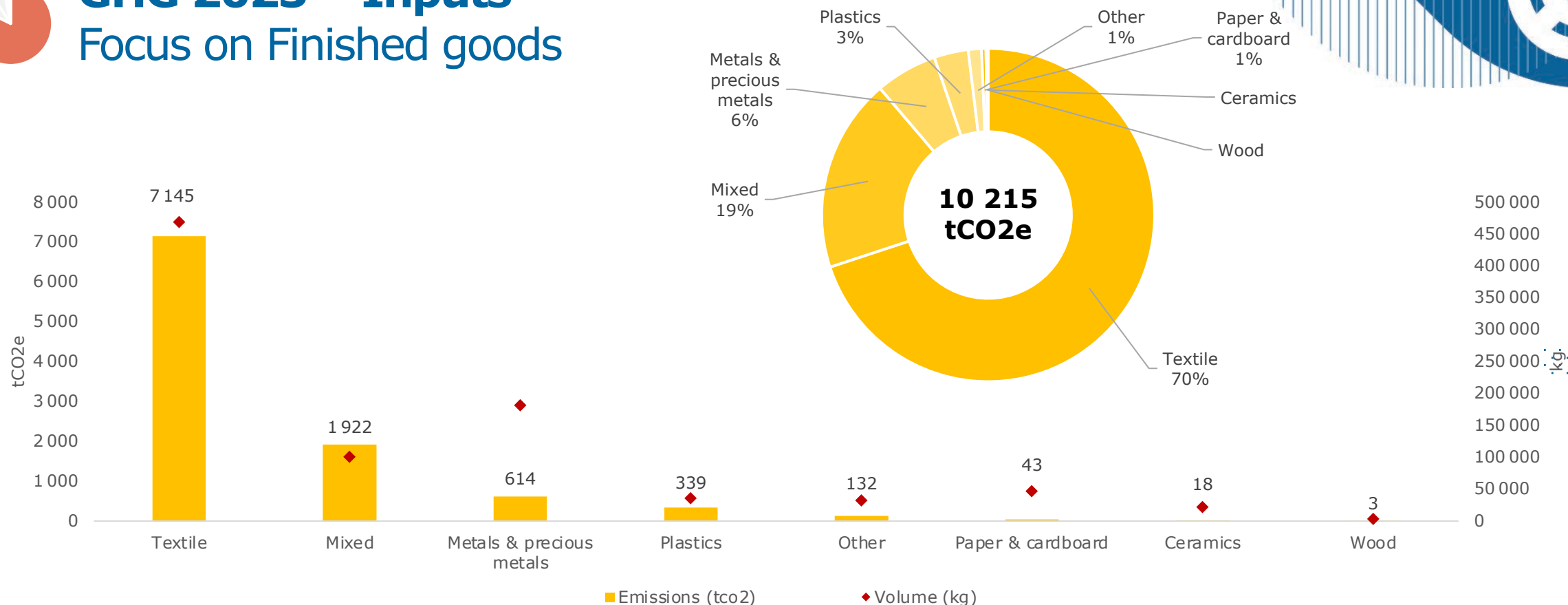
The emissions of inputs have increased in 2023 compared to 2022.
This is explained by an increase in the volumes of materials used and a more detailed breakdown by material.
Finished goods materials account for over **91%** of input-related emissions & **packaging 6%** in 2023.





GHG 2023 – Inputs

Focus on Finished goods



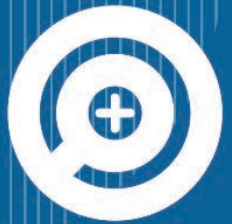
• Calculation methodology:

- A finer segmentation of the materials used for finished products has enabled a more precise measurement of emissions, and for the most significant materials, a special emission factor has been developed to further refine the results.
- The different materials have been grouped within these families of materials to enhance readability; the 'textile' category represents mixed materials with a majority of textiles.
- Thus, **textiles account for 70%** of the emissions related to finished products, followed by the mixed materials category.

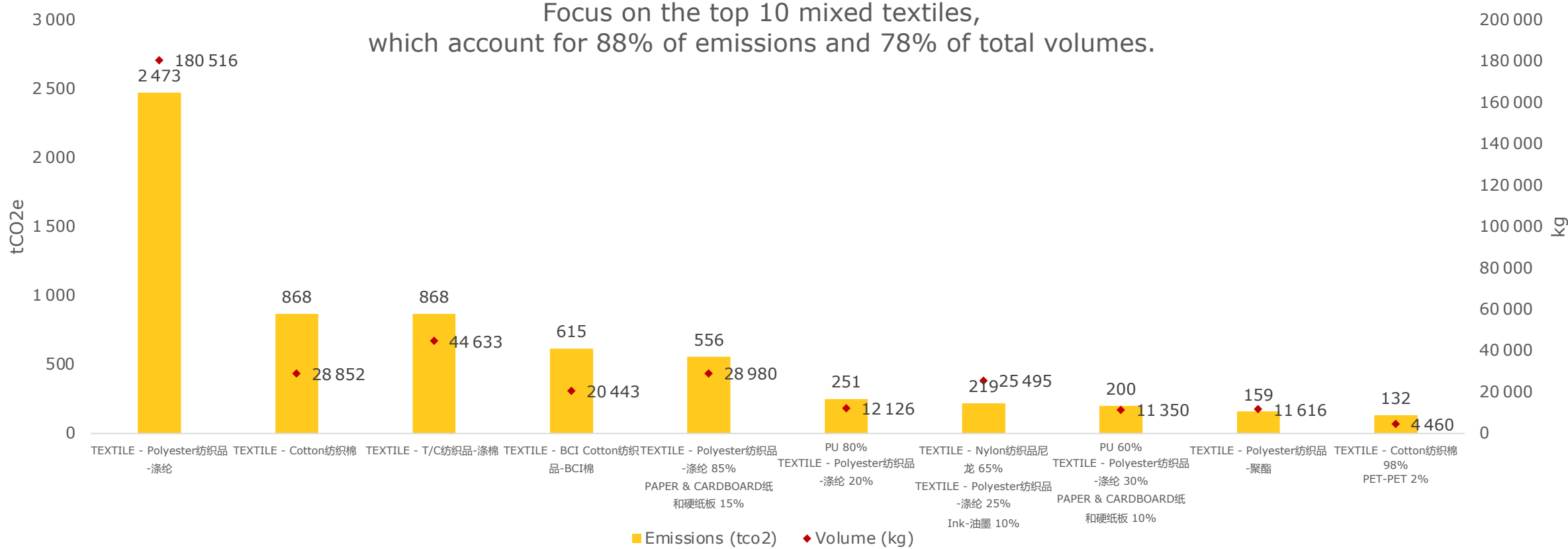


GHG 2023 – Inputs

Focus on Textiles – 7 145 tCO2



Focus on the top 10 mixed textiles,
which account for 88% of emissions and 78% of total volumes.



■ Emissions (tco2) ◆ Volume (kg)

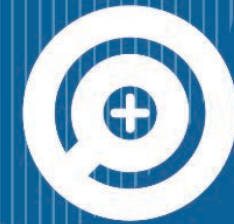
- **Calculation methodology:**
 - For those materials a special emission factor has been created to refine the results.
 - Polyester is the most widely used material and appears in many finished products, making it responsible for the majority of emissions from textiles

Freight

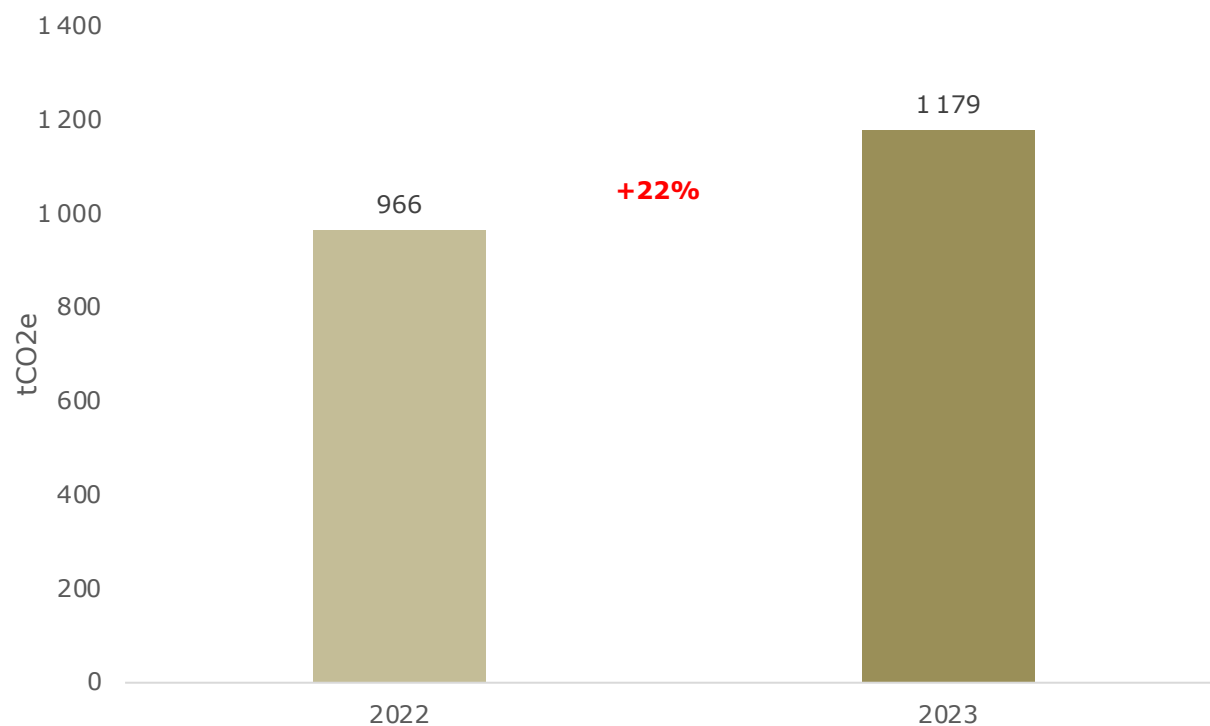


GHG 2023 – Freight

9% of GHG – 1 179 tCO₂e



Comparison of total freight emissions (tCO₂e)



Methodology

The actual data provided by TechDesign was used.

The following calculation method was used:

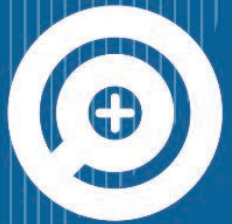
- Data were collected in terms of weight transported & distance by trip
- Emission factors are in tons.kilometer (t.km).





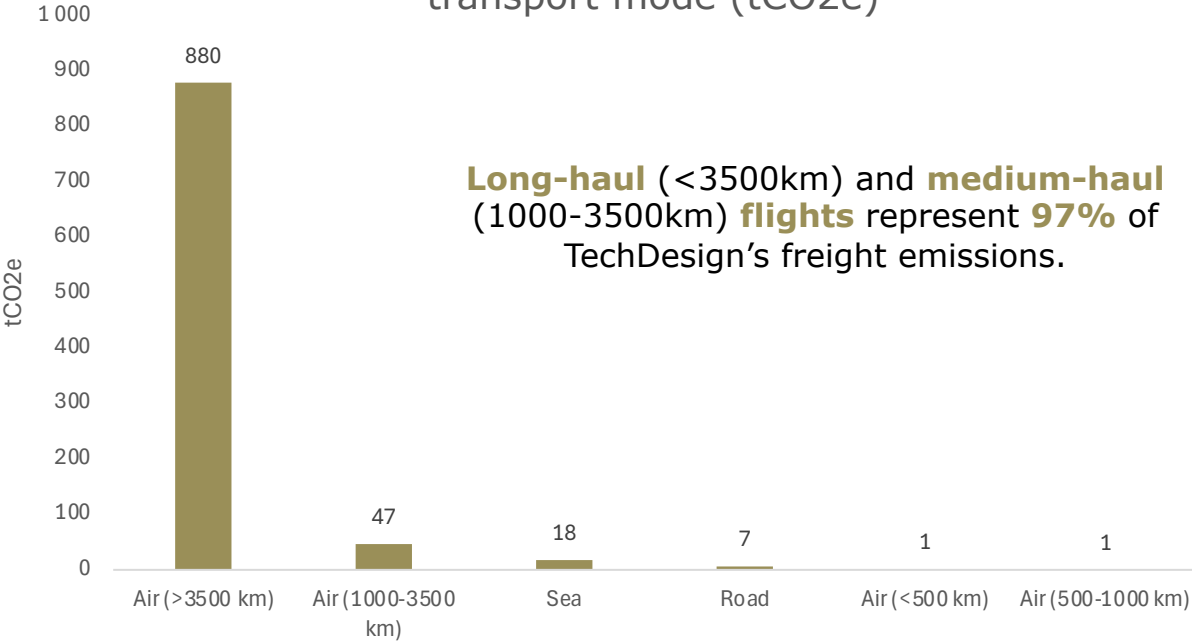
GHG 2023 – Freight

9% of GHG – 1 179 tCO₂e

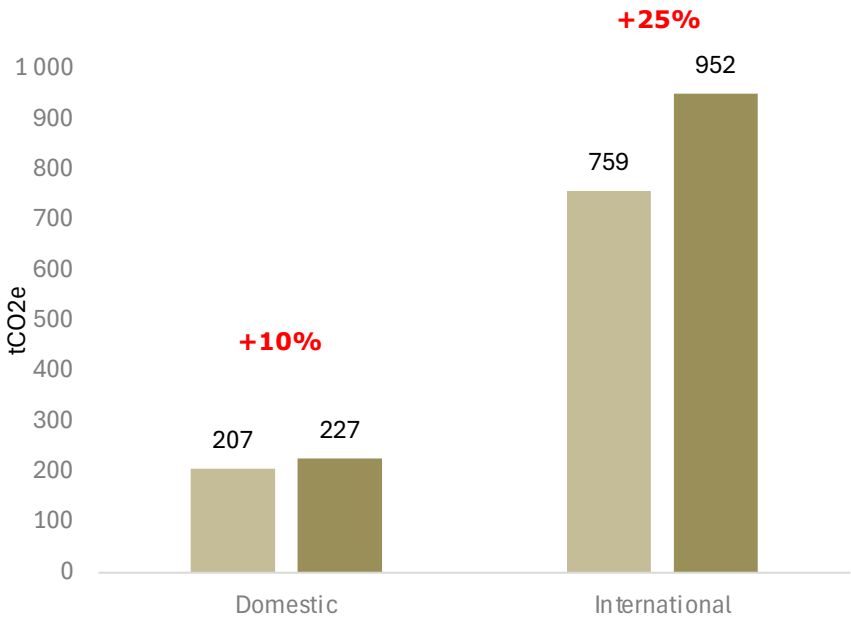


Emissions associated to **international freight** have grown by **25%** from 2022 to 2023.

Breakdown of international freight emissions by transport mode (tCO₂e)



Breakdown of freight emissions





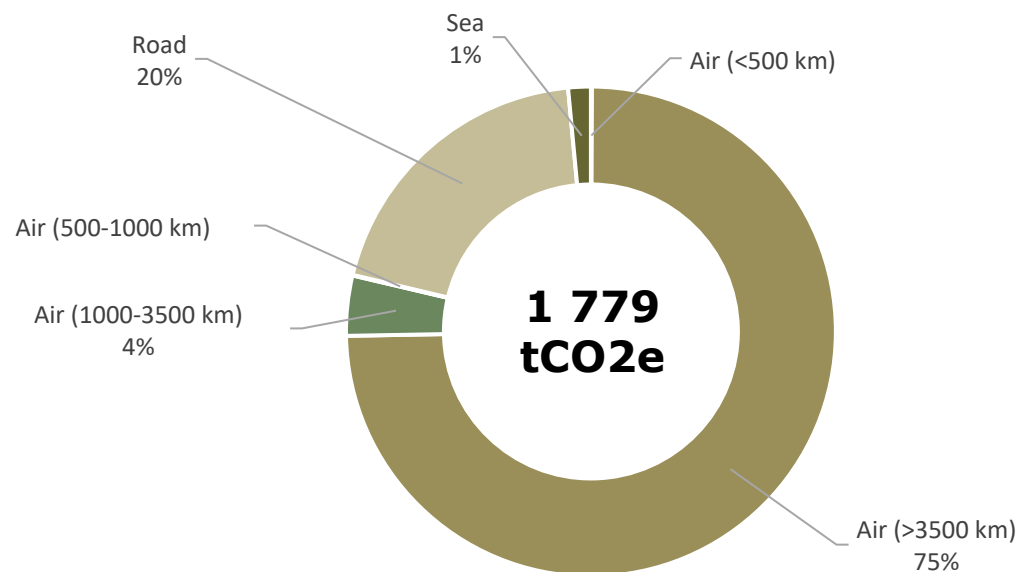
GHG 2023 – Freight

9% of GHG – 1 179 tCO₂e

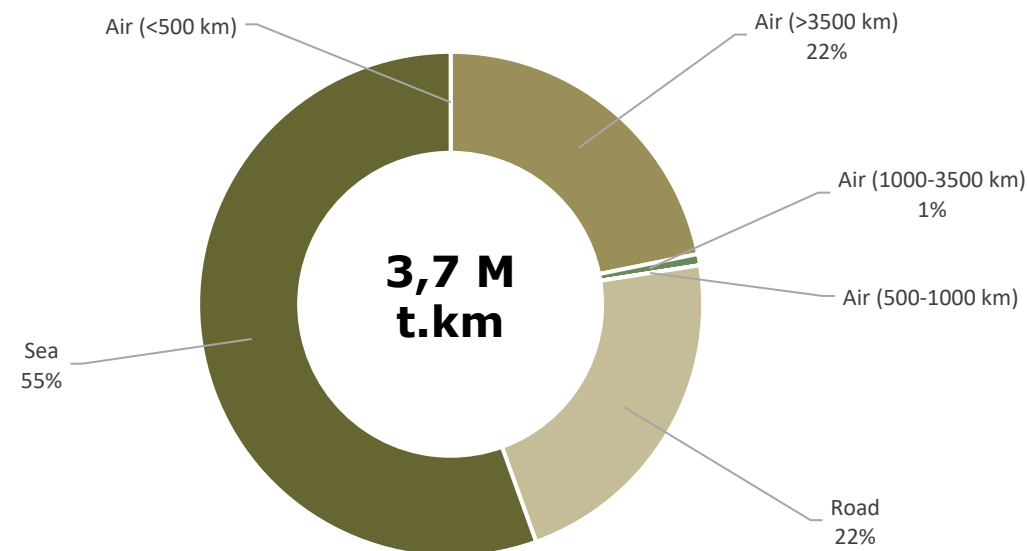


Long-haul flights (<3500km) represent **75% of freight emissions**, yet they only transport 22% of traded weight per kilometer. On the other hand, in terms of volume and distance, while 55% of goods are transported by **sea**, this only represents **1%** of freight emissions.

Breakdown of freight emissions (tCO₂e)



Breakdown of freight volume per distance (t.km)



End-of-life

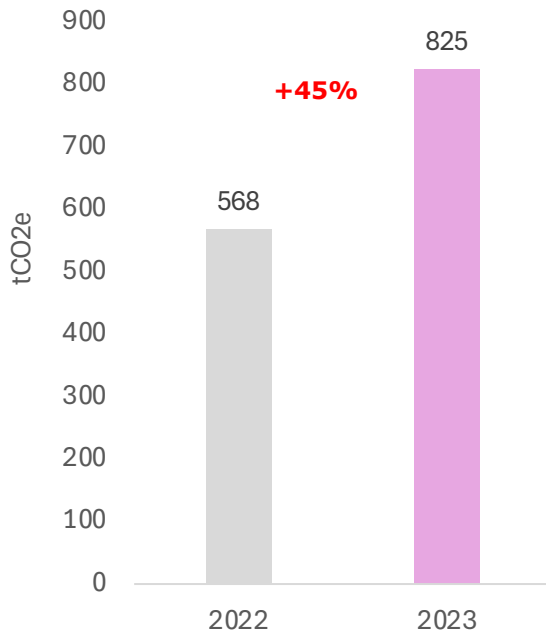


GHG 2023 – End-of-life of products sold

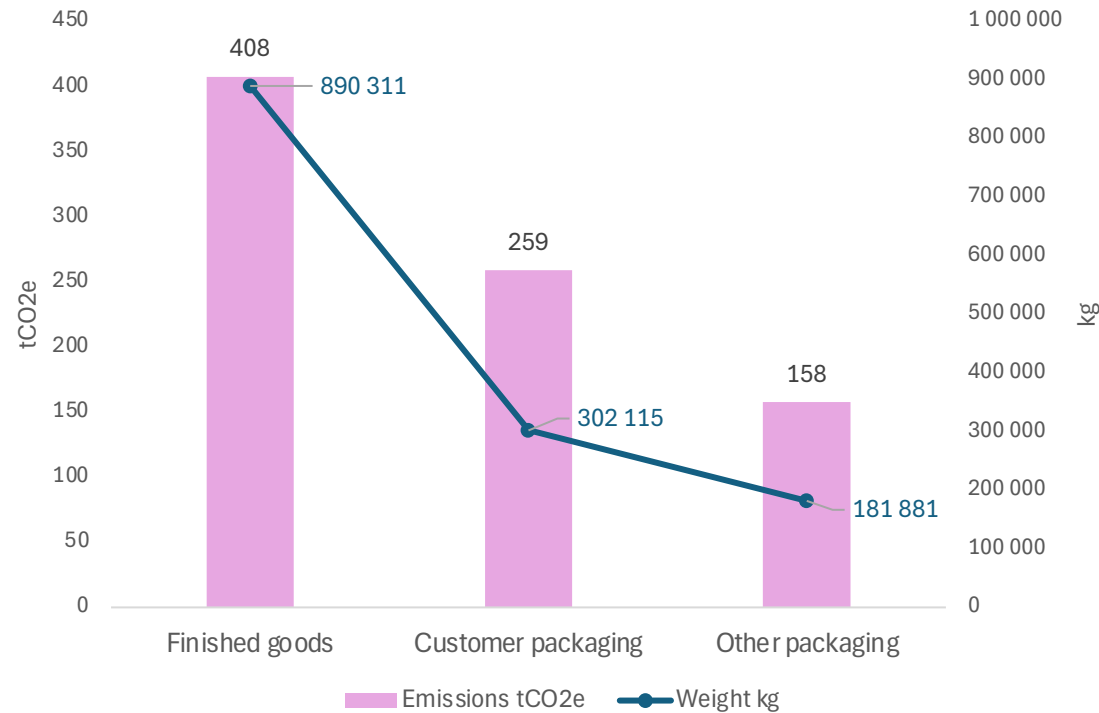
6% of GHG – 825 tCO₂e



End-of-life comparison
(tCO₂e)



End-of-life emissions (tCO₂e) and weights (kg)
by category



Methodology

The current data provided by TechDesign was used.

The following calculation method was used:

- End-of-life emissions of products are based on the mass entered (units x weight)

The hypothesis was taken that Finished goods with more than one material were attributed a generic household waste / average end of life impact (0,386 kgCO₂e) emission factor.

Finished goods with one material component and packaging had a specific emission factor which varies according to the material.

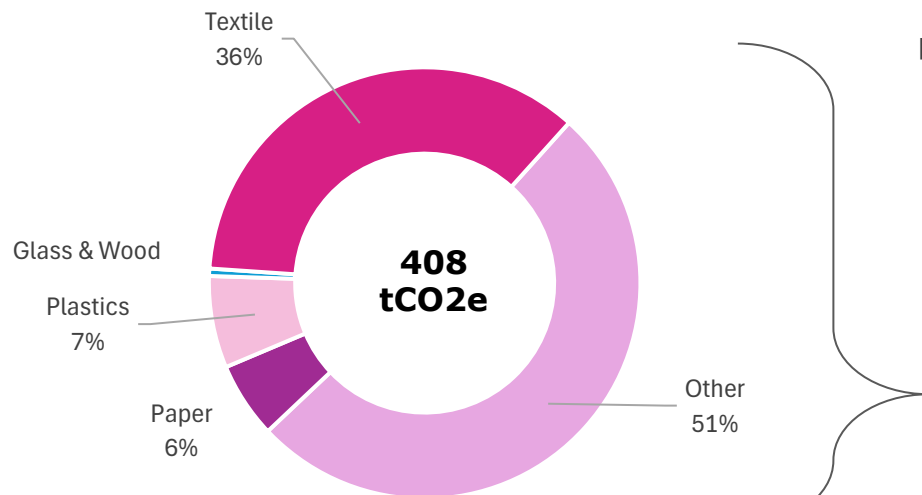


GHG 2023 – End-of-life of products sold

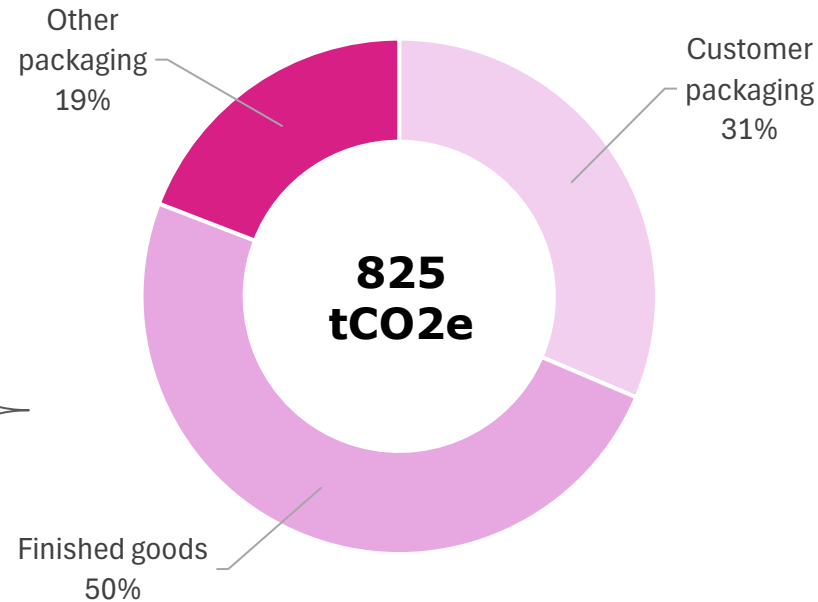
6% of GHG – 825 tCO₂e



Breakdown of emissions by type of finished goods (tCO₂e)



Breakdown of end-of-life emissions (tCO₂e)



50% end-of-life of sold products emissions come from **Finished good**, followed by **Customer packaging (31%)** and **Other packaging (19%)**.

End-of-life emissions from Finished goods are **mainly associated (51%)** with products containing 'Other' materials, followed by **Textile (36%)**.

Methodology

The category 'Textile' represents purely textile-based product. In turn, products with a mixed composition of textile and non-textile materials were categorized as 'Other'.

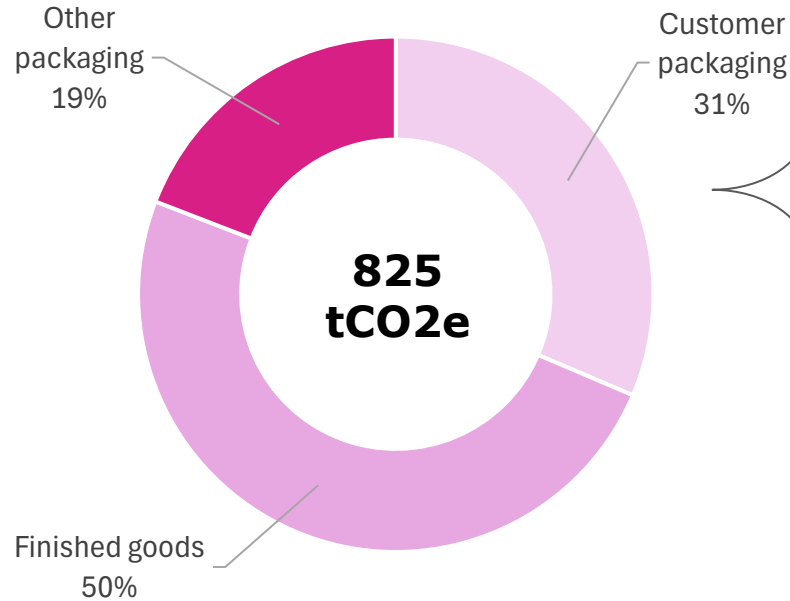


GHG 2023 – End-of-life of products sold

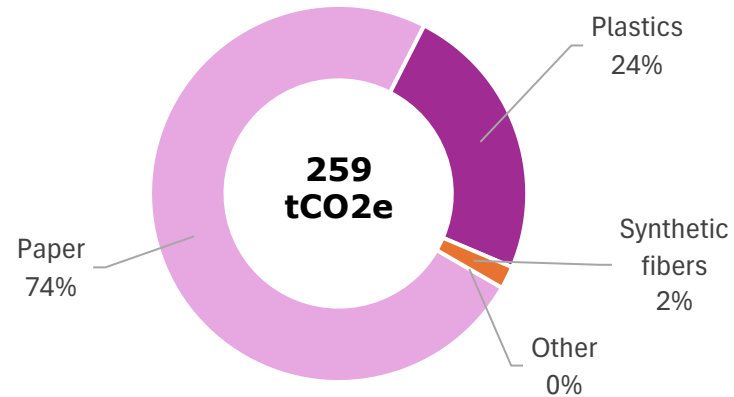
6% of GHG – 825 tCO₂e



Breakdown of end-of-life emissions (tCO₂e)



Customer packaging breakdown by emissions (tCO₂e)



3/4 of end-of-life emissions from Customer packaging are associated to **Paper** (and cardboard) packaging. This is coherent with its total weight, as paper represents **86% of volume**.

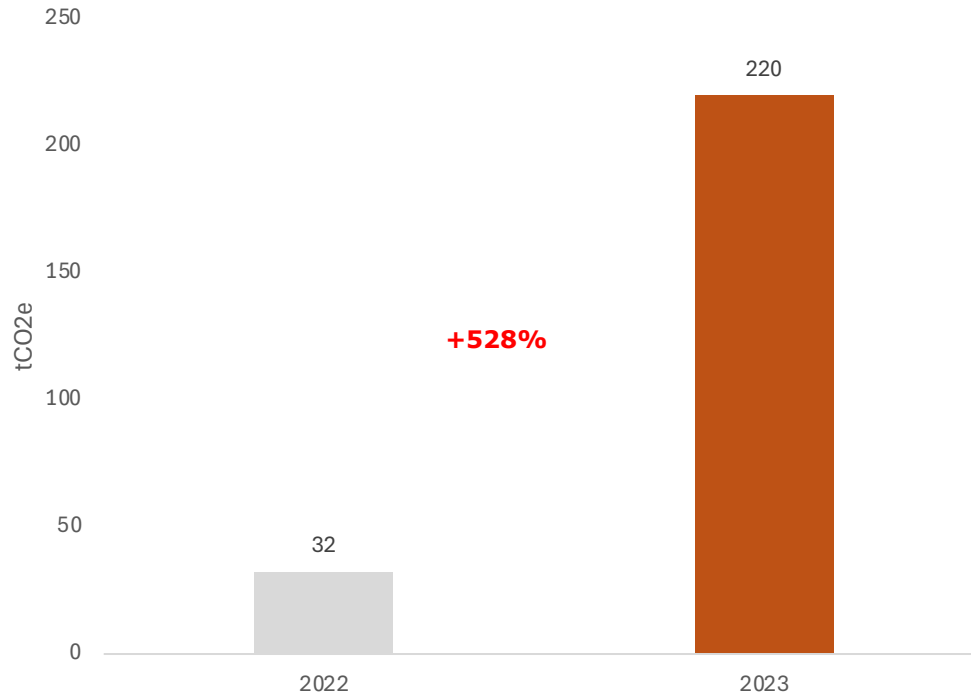
Use of sold products



GHG 2023 – Use of sold products

2% of GHG – 220 tCO₂e

Use of sold products emission comparison (tCO₂e)



Emissions coming from the **use of sold products has increased by a factor of 7**. This is due to the larger quantities of electronic products sold, 562 units in 2022 compared to 25 165 units in 2023.

Methodology

This category only concerns products that are electronic (i.e.: energy is consumed when using the product).

Product quantities provided by TechDesign were used. For each product, the following hypotheses were made to find the kWh:

- Consumption in one year (hours)
- Lifetime (years)
- Power (kW)

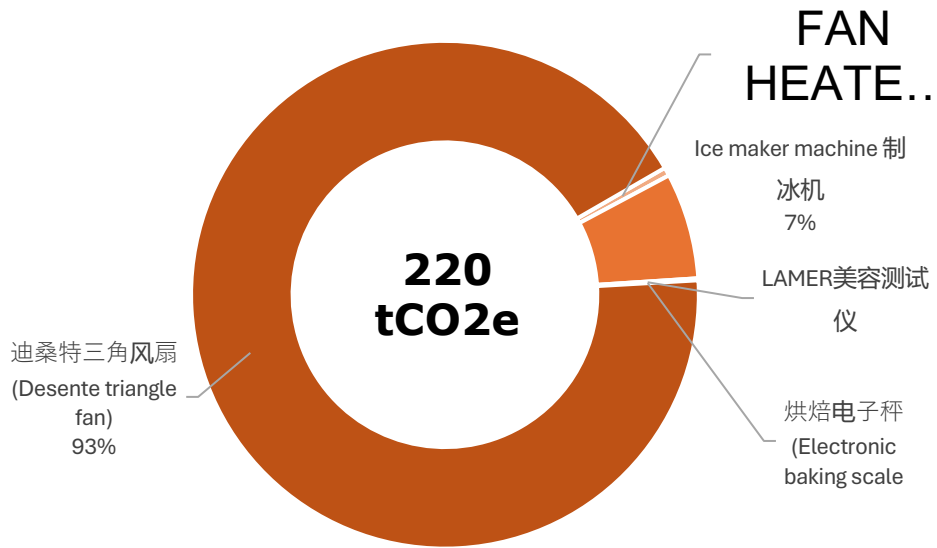
A world average electricity consumption emission factor was applied.



GHG 2023 – Use of sold products

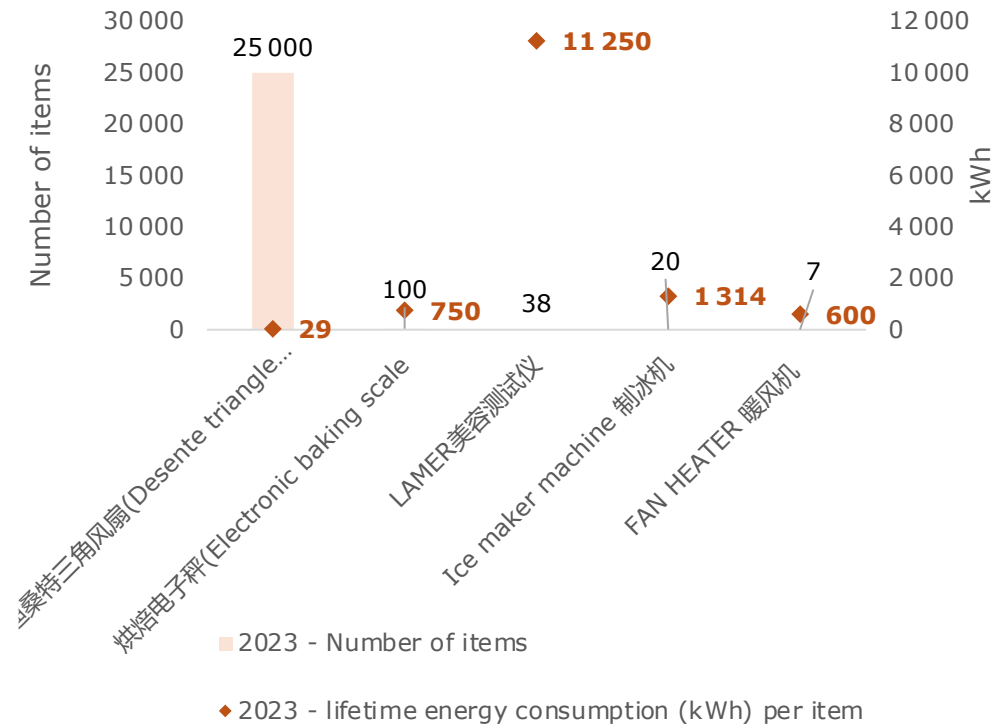
2% of GHG – 220 tCO₂e

Use of sold products breakdown of emissions (tCO₂e)



The **triangle fan** sold to **Desente** represents **93%** of emissions, as it is 99% of items sold in this category. However, when looking at **energy consumption per unit**, the **Lamer** is the most energy-consuming and hence emissive product.

Use of sold products lifetime energy consumption (kWh) per item



Travels

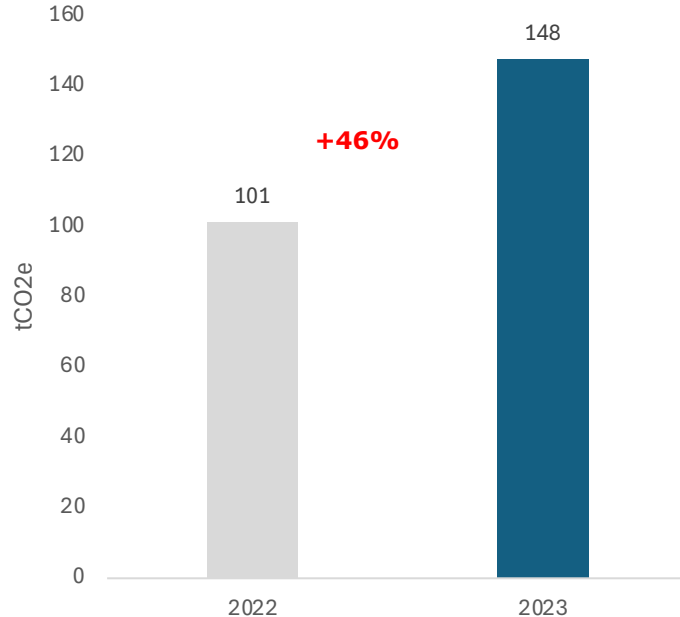


GHG 2023 – Travel

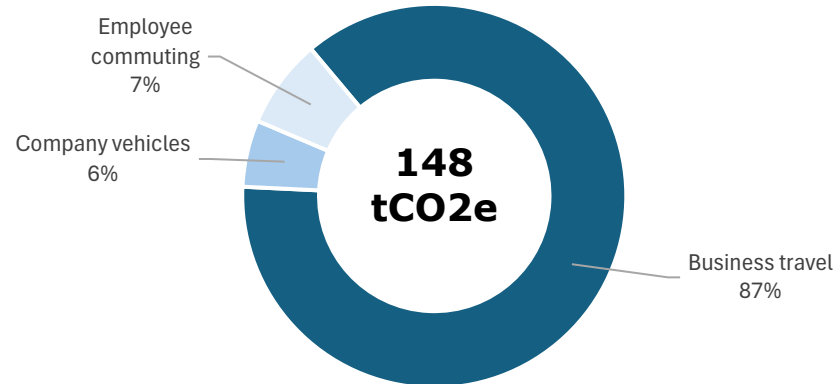
1% of GHG - 148 tCO₂



Travel emission comparison
(tCO₂e)



Breakdown of Travel emissions (tCO₂e)



Business travel accounts for **87%** of travel-related emissions.

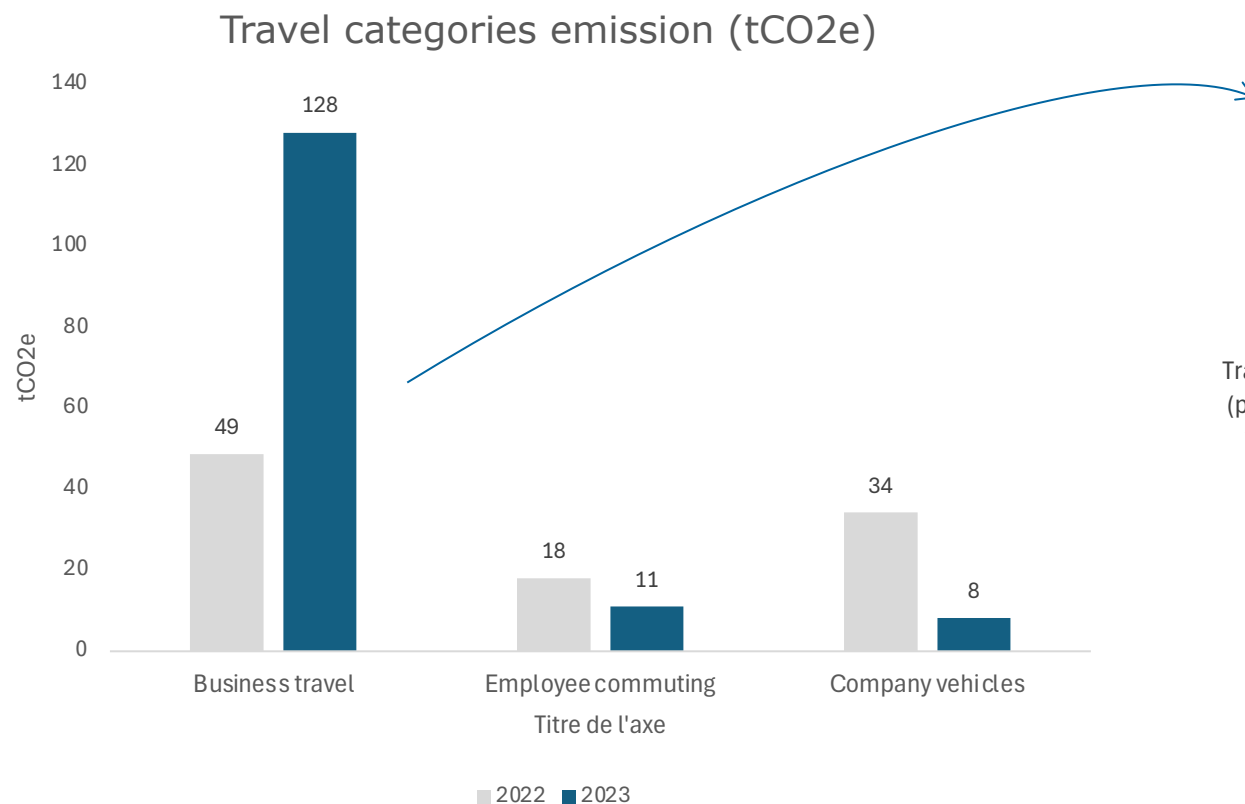
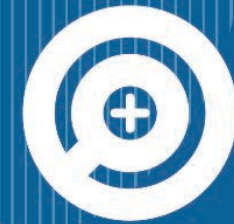
Methodology

Emissions associated with business travel were calculated on the basis of real data (km travelled by mode of transport) supplied by TD. Employee commuting emissions are based on real data for the French office, while those for the Chinese offices were extrapolated from the 2022 footprint.

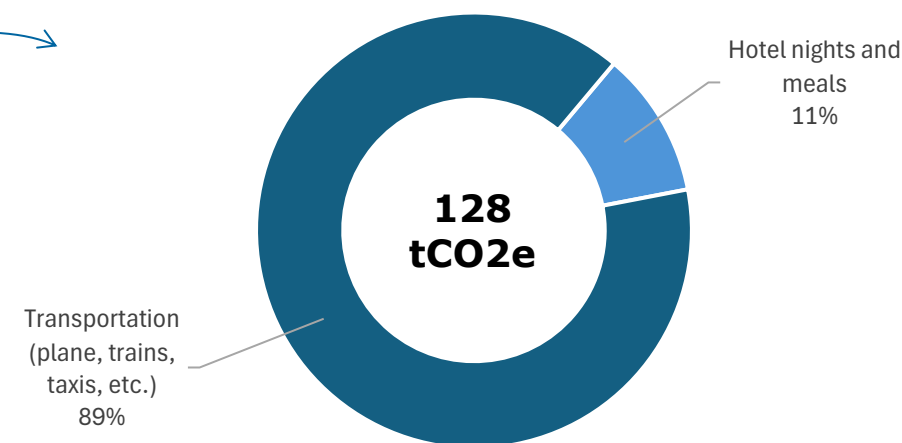


GHG 2023 – Travel

1% of GHG - 148 tCO₂



Breakdown of business travel emissions (tCO₂e)



Business travel emissions have increased by **87%**, while other travel categories have decreased.

Emissions associated to business travel mainly come from **transportation (89%)**.

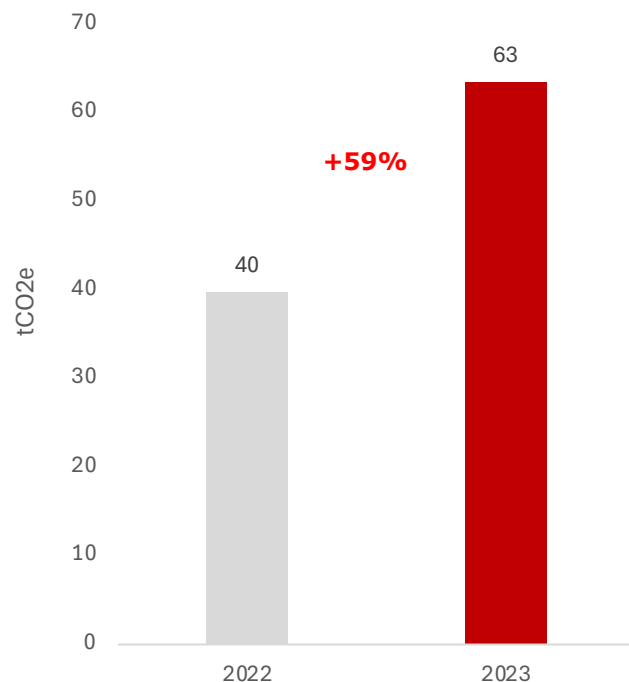
Energy



GHG 2023 – Energy

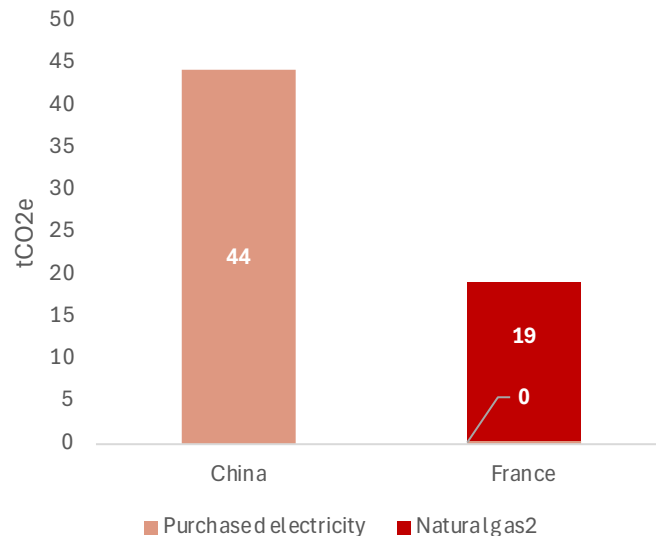
<1% of GHG – 63 tCO₂

Energy emission comparison (tCO₂e)

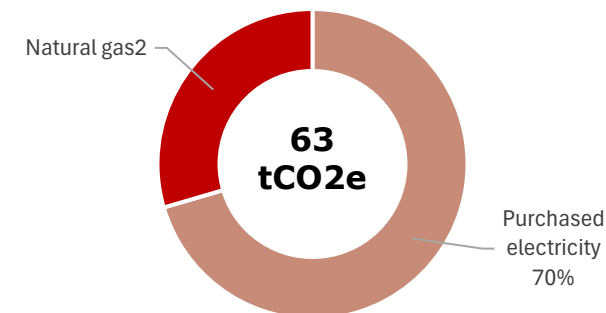


Electricity is responsible for **70%** of emissions, followed by **natural gas** with **30%**. China and France can be attributed to the same respective emission shares.

Breakdown of energy type emissions by country (tCO₂e)



Breakdown of energy emissions



Methodology

This category covers all electricity and natural gas consumption over 2023 for the 3 offices in China and France.

Electricity consumption is recorded in kWh, and the emissions factor of the country's electricity mix is used.

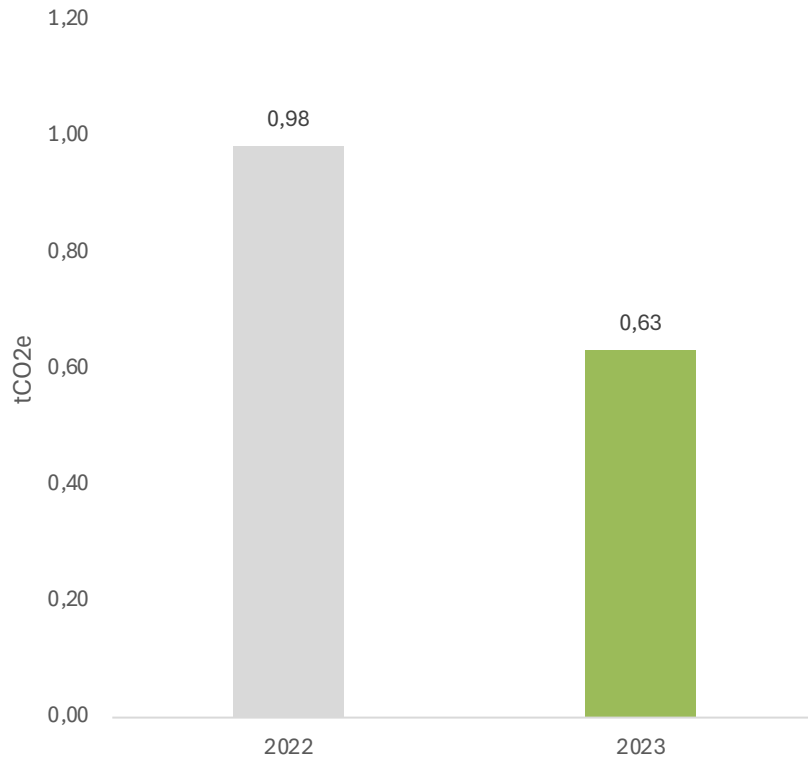
Waste



GHG 2023 – Waste

<1% of GHG – 0,6 tCO₂

Waste emission comparison



Breakdown of waste emissions by office



Emissions associated to waste have **decreased by 36%** between 2022 and 2023.

Common waste accounts for **100% of waste emissions**.

Dongguan office is responsible for **2/3** of emissions linked to waste.

Methodology

Real data was used in this category, namely the tons of waste produced by each of Tech Design's offices.

The emission factor used is that of global "Residual household waste / Average end-of-life impact".



Results by customer

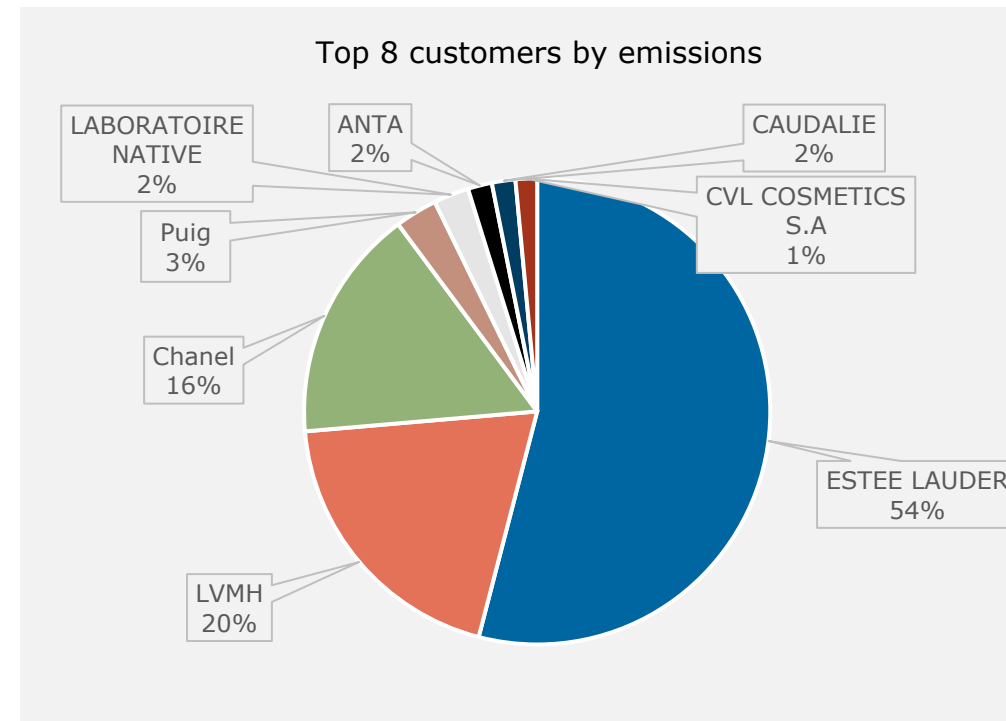
GHG Protocol 2023 – TechDesign

Summary of emissions by customers

Excluding emissions from the use phase and end-of-life

Customer	Emissions 2023 (tCO ₂ e)	Shipment amount 2023 (€)	KPI : tCO ₂ e/k€
ESTEE LAUDER	6 445	4 990 821	1,291
LVMH	2 142	9 154 700	0,234
Chanel	1 932	14 258 293	0,135
Puig	350	1 665 405	0,210
LABORATOIRE NATIVE	291	543 700	0,536
ANTA	200	558 595	0,357
CAUDALIE	194	99 099	1,962
CVL COSMETICS S.A	178	231 507	0,769
Total	11 732	31 502 119	

Emissions from **top 8 Customer Groups** account for almost 90% of Tech Design total emissions.



GHG Protocol 2023 – TechDesign for LVMH

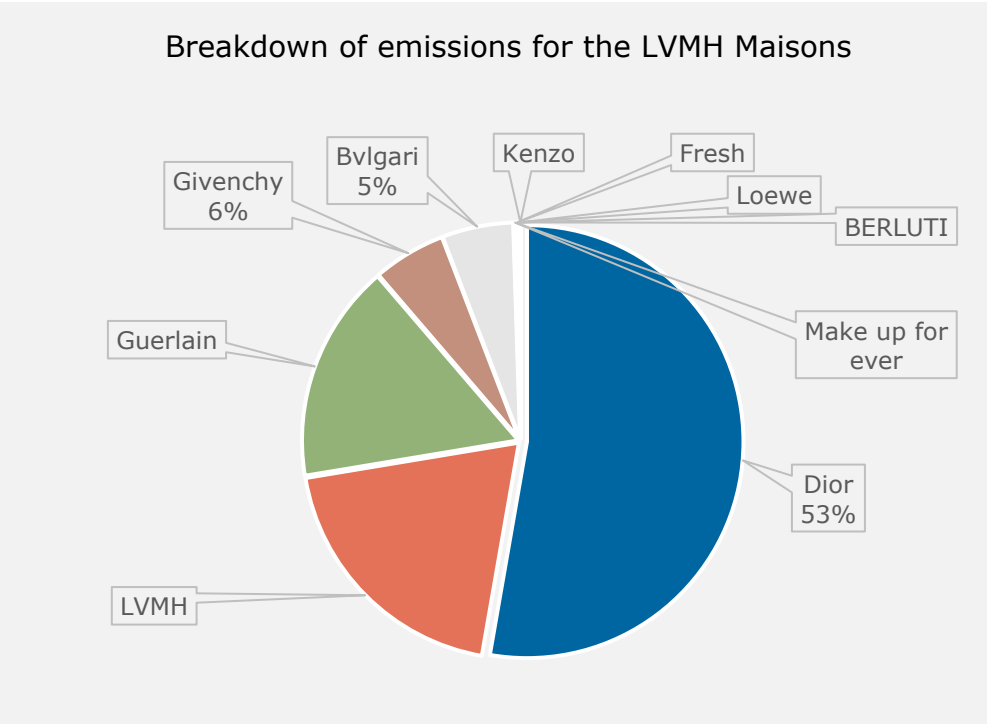
Summary of emissions by Maison

Excluding emissions from the use phase and end-of-life

Maisons	kg purchased of material	Emissions 2023 (tCO2e)
Dior	140 346	1 134
LVMH	-	403
Guerlain	52 379	354
Bvlgari	33 850	124
Givenchy	17 599	116
Make up for ever	731	4,3
Fresh	559	3,1
Loewe	243	3,0
Kenzo	40	0,4
BERLUTI	15	0,2
Total	245 762	2 142

Total from **LVMH Group** :
2 142(tCO2)

Emission intensity
per turnover:
0,23 (tCO2e/k€)



GHG Protocol 2023 – TechDesign for Chanel

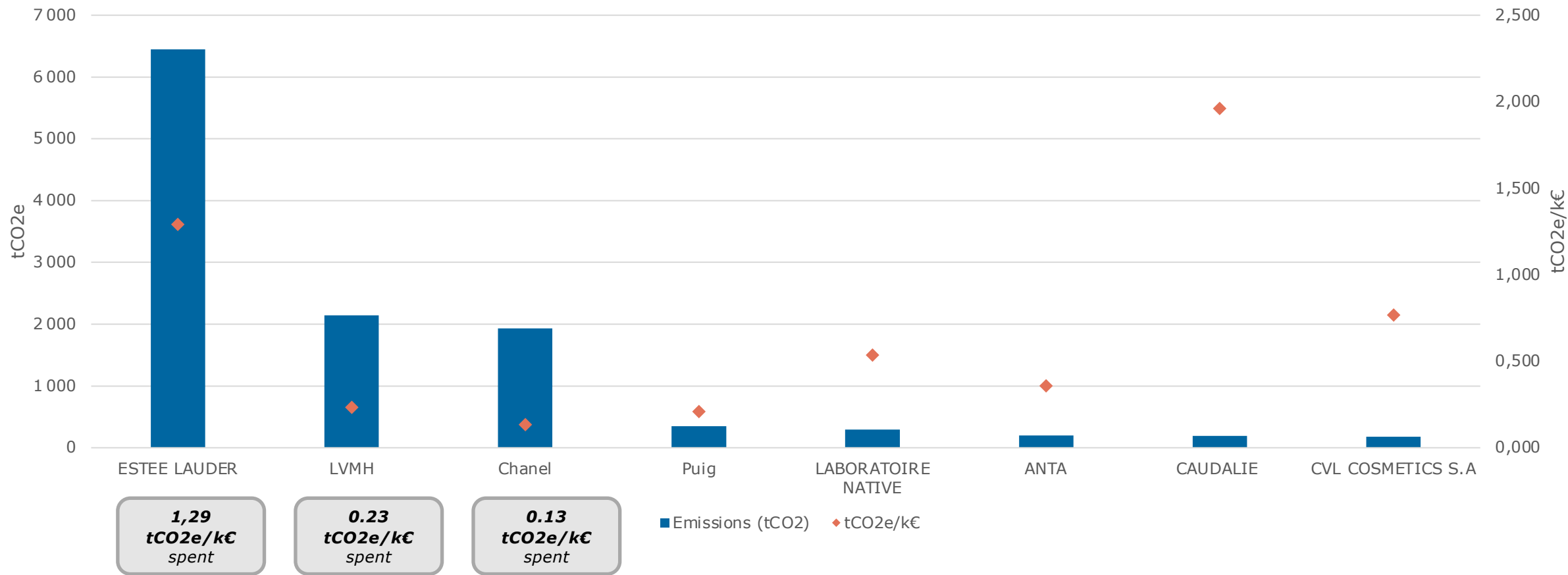
Summary of emissions

Excluding emissions from the use phase and end-of-life

Maison	kg purchased of material	Emissions 2023 (tCO2e)	Total from Chanel : 1 932 (tCO2)	Emission intensity per turnover: 0,13 (tCO2e/k€)
Chanel	258 244	1 932		

Tech Design GHG emissions by the 8 main Customer Groups

Excluding emissions from the use phase and end-of-life



Emissions from **top 8 Customer Groups** account for **90%** of Tech Design total emissions.

The diagram illustrates aggregated emissions by customer (blue bar, left-hand axis) and intensity per € of sales (dots, right-hand axis).

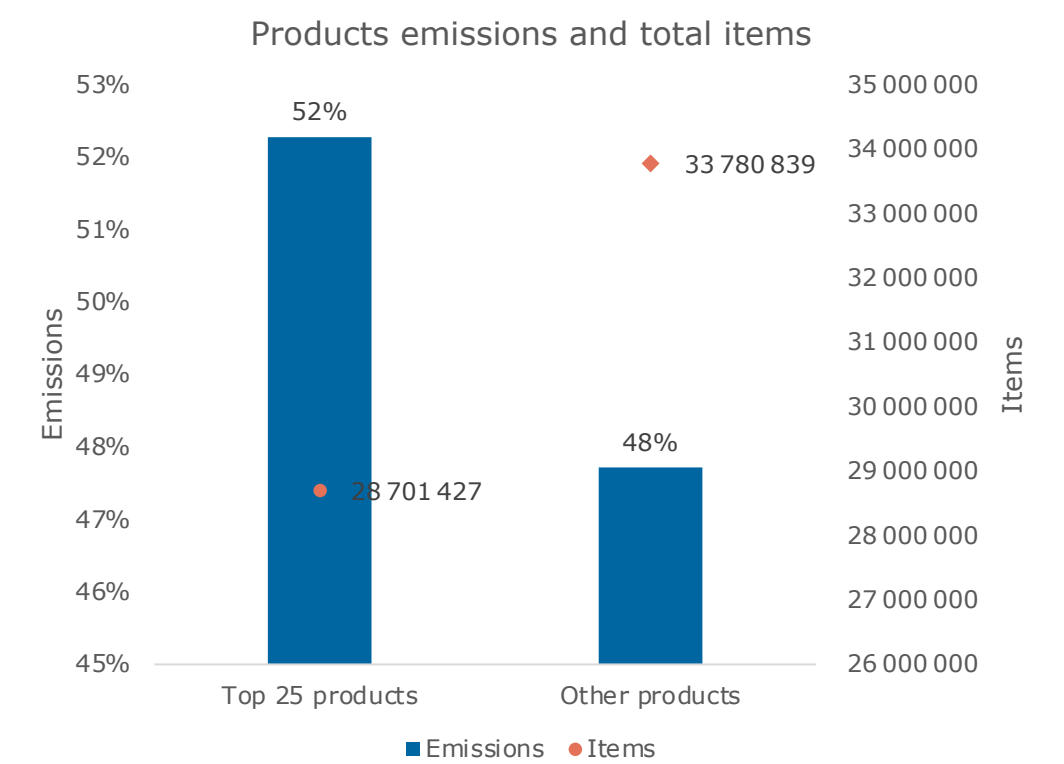
Tech Design «organizational» emissions (energy, travel, waste, capital goods and other goods and services) were attributed pro-rata to TD customers based on the relative weight of the final goods purchased over the total volumes purchased.

Tech Design GHG emissions by top 25 products – Materials emissions

Product name	Unit sold	Emissions 2023 (%)
LAMER绿色抽绳袋(中号)	2 907 200	6%
EL帆布袋(Canvas bag)	155 800	5%
LAMER小号云朵化妆箱	48 300	5%
EL常规双层抽绳袋 (Double drawstring bag)	3 150 000	4%
LAMER绑带L	73 000	2%
SAUVAGE GWP1 INT24	84 167	2%
Cosmetic bag/case 化妆包/化妆盒:Drawstring bag 束口袋	12 764 470	2%
LAMER蝴蝶结绑带L	65 000	2%
LAMER蝴蝶结绑带M	62 500	2%
lamer绑带M	62 500	2%
Accessories 配饰:Charm 挂饰	7 776 951	2%
RUBAN PREFORMES COFFRETS NOEL 23	364 200	2%
JO MALONE LONDON帆布袋	31 800	1%
LAMER蓝绿渐变化妆包	25 000	1%
LM绿色小号化妆桶包	10 000	1%
7424247458-TOWEL SET CRM CT BEAUTY	17 840	1%
TROUSSE SET CCM EDP RC BAUME VAO 24	61 264	1%
Chanel Turban	78 305	1%
LIERAC TOTE BAG MANIFESTO 23	42 000	1%
BB帆布袋(Canvas bag)	16 850	1%
EL镂空包(Hollow bag)	23 000	1%
LAMER哑铃	49 980	1%
Chanel Travel Pouch	86 300	1%
LAMER M绑带	734 000	1%
LAMER大号云朵化妆箱	11 000	1%
Total	28 701 427	52%

Emissions from **top 25 products sold** account for **52%** of Tech Design total emissions.

If some of these products are always ranked among the «top sellers», it could be worth assessing their Life-Cycle emissions.



AGENDA

1. INTRODUCTION

- ∞ Reminder of the context
- ∞ Methodological reminders

2. GLOBAL RESULTS

- ∞ Focus on main categories
- ∞ Results by customer

→ 3. CONCLUSION & RECOMMENDATIONS

Conclusions



- ∞ **The total CO2e emissions of TechDesign in 2023 reach 13,662 tCO2e. This corresponds to 290 tCO2e/FTE.**
- ∞ The **primary source of emissions is the category of purchases**, accounting 82%. The purchases of finished products, particularly, constitute the majority of emissions in this category (91%)
- ∞ Freight represents 9% of TechDesign's total footprint. Although long-haul air freight is not the most representative in terms of distance, it is responsible for 75% of the total freight emissions.
- ∞ The end-of-life of sold products represents 6% of TechDesign's emissions.
- ∞ The use of sold products accounts for 2% of emissions, while business travel and commuting account for 1% of the footprint. Energy and waste are negligible for TechDesign from a carbon footprint perspective.
- ∞ **The purchases of finished products, packaging and freight constitute the main challenges for reducing TechDesign's carbon footprint..**

Next steps proposed for TechDesign



ASSESS & ANALYZE

Assess your current state and **transformation** potential

- ▶ **Carbon footprint** (GHG calculation)
- ▶ **Environmental Life Cycle Assessment (LCA)**
- ▶ Reporting (CDP, **CSRD**)
- ▶ **Biodiversity footprint**
- ▶ **Water footprint**
- ▶ Carbon Management **platform**
- ▶ **Double materiality & Climate risks** analysis



COMMIT & PLAN

Commit to transformative action and lead the way

- ▶ **Definition of Net Zero** strategy
- ▶ **Science-based targets (SBTs)**
- ▶ **Carbon Reduction & Forecasting Tool**
- ▶ **Reduction action plan & roadmap**
- ▶ **Communicate** your sustainability and climate commitments



TRANSITION & TRANSFORM

Transition to a low-carbon economy through transformative change

- ▶ **Climate action plan** aligned with planetary boundaries
- ▶ **Risk mitigation** strategies
- ▶ **Carbon offsetting strategy** for net-zero targets
- ▶ **Change management** programme and training
- ▶ **Supplier engagement and purchase** strategy



CONTRIBUTE & REMOVE

Contribute to offsetting projects & **remove** residual emissions

- ▶ Investment in **Nature & Technology based projects**
- ▶ Carbon Offset **Project development**
- ▶ **Project feasibility** studies
- ▶ **Carbon credits portfolios**
- ▶ **Biodiversity** strategy

Your climate experts.

Your partners for positive change.

EcoAct is an international climate consultancy and project developer that supports companies to define and implement robust science-aligned net-zero strategies and achieve their targets. Founded in France in 2006, the company now spans three continents with offices in Europe, North America and Africa.

With a team of more than 360 international climate experts, EcoAct's core purpose is to lead the way in developing sustainable business solutions that deliver true value for both climate and client. EcoAct is a CDP Gold Partner, a founding member of ICROA, a strategic partner in the implementation of the Gold Standard for the Global Goals and reports to the UN Global Compact.

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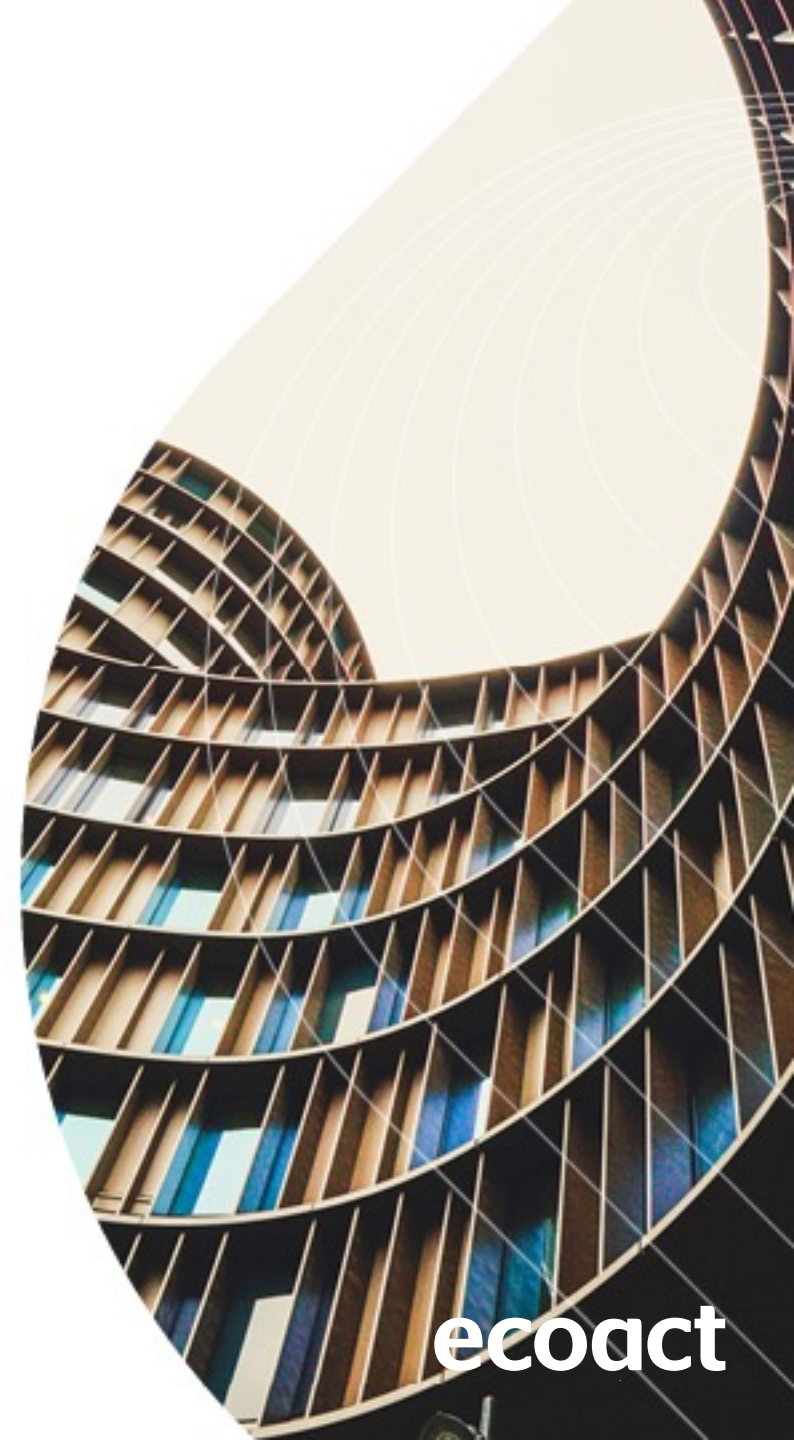
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Appendix

Summary of key hypotheses made by EcoAct – 1

Hyp. #	Emission item 1	Emission item 2	Hypothesis type	Description
1	Heating	Natural gas	Activity data	Converted kWh from higher heating value (data source: energy bill) to lower heating value
2	Air conditioning		Activity data	It was confirmed with TD that no leakages from the air conditioning systems occurred in 2023, hence no emissions were associated with that.
3	Purchased services	Employee welfare	Exclusion	Not included because associated emissions are out of scope and highly uncertain
4	Purchased services	Transportation costs	Exclusion	Not included because of double accounting with freight data collected
5	Purchased services	Utilities	Exclusion	Not included because of double accounting with energy, capital goods, waste, etc.
6	Purchased services	Rent expense (租金) for Paris & China	Exclusion	Not included because of double accounting with energy
7	Finished goods + Packaging	Weights	Data	Weights given with "." decimals were switched into "," decimals. --> suggestion of improvement: make sure to standardize decimals in "," in data for future analyses.
8	Purchases of other goods	Purchases of other goods (e.g., office consumables, meals, etc.)	Data	The currency was missing from the data collection file, by default CNY was applied as for all other data supplied.
9	Finished goods	Materials	Data pre-treatment	Material composition accounting for 90% of purchased weight were attributed to a detailed EF. The remaining 10% got a "mixed" material EF.
10	Packaging	Types	Categorization	Different packaging types were associated to larger categories to facilitate the result analysis.
11 56	Capital goods		Activity data	It was confirmed with TD that no new assets were purchased in 2023

Summary of key hypotheses made by EcoAct – 2

Hyp. #	Emission item 1	Emission item 2	Hypothesis type	Description
12	Freight	Air distance	Emission Factor	If distance was below 500km, a new emission factor was attributed.
15	Employee commuting		Extrapolation	Based on 2022 data, all data was converted proportionately to the 2023 total FTE data.
16	Use phase of products sold	迪桑特三角风扇 (Desente triangle fan)	Use phase	Consumption in one year = 480 hours; lifetime = 3 years; power = 10W.
17	Use phase of products sold	FAN HEATER 暖风机	Use phase	Consumption in one year = 300 hours; lifetime = 2 years; power = 500W.
18	Use phase of products sold	Ice maker machine 制冰机	Use phase	Consumption in one year = 1 460 hours; lifetime = 5 years; power = 180W.
19	Use phase of products sold	LAMER美容测试仪	Use phase	Consumption in one year = 125 hours; lifetime = 3 years; power = 30W.
20	Use phase of products sold	烘焙电子秤 (Electronic baking scale)	Use phase	Consumption in one year = 75 hours; lifetime = 5 years; power = 2W.
21	Finished goods		Emission Factor	Assumed the products sold are disposed of by the customers as common, unsorted household waste.
22	Finished goods		Emission Factor	Only 100% textile-composed products were given a textile end-of-life, while textile products with non-textile components were given a household waste end-of-life.