



ecoact

**Carbon footprint assessment 2019
Consultation meeting**

Consultation meeting

Objectives

-
- Presentation of GHG footprint results
 - Exchanges on reduction recommendations



Agenda



1

Objectives, scope and calculation method

2

Global results

3

Detailed results

4

Next steps

EcoAct

About us

Who we are

- Founded in 2005
- Present in Paris, Embu (Kenya), London, New-York, Barcelona and Istanbul
- 160 collaborators worldwide.

Our added value

- European leader in carbon and climate strategy
- French leader in the number of realised Bilan Carbone® and Life-Cycle-Analysis
- European leader in the Voluntary Carbon Market
- Founding partner of Gold Standard for the Global Goals
- Elected best advisory firm in climate strategies worldwide by Environmental Finance

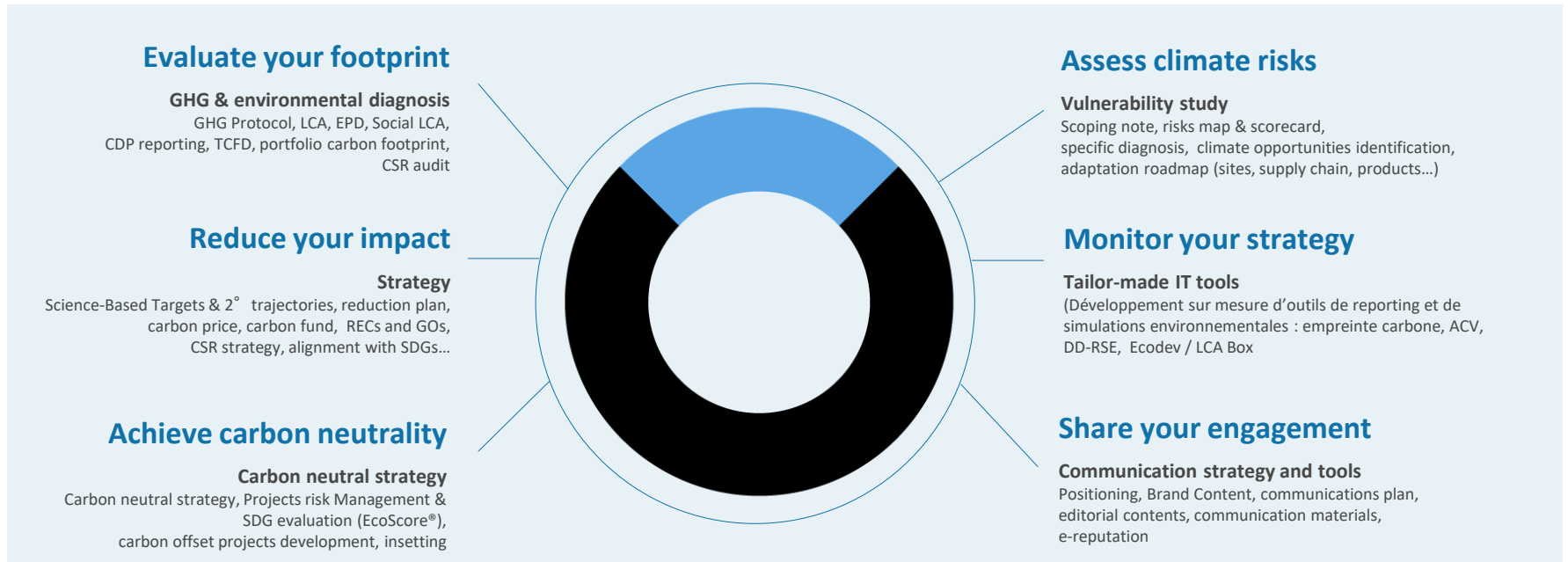
Partnerships



Awards



Define a tailored climate strategy for your organization



Our credentials.

Our clients.

"Mission very well carried out with great expertise by EcoAct teams. Listening and very available, the various interlocutors perfectly met our expectations. »

Sustainability Director
Crédit Agricole





1. Objectives, scope and calculation method

Context

Objectives of the project



Albertini Packaging Group's commitment to the development of a sustainable environmental policy is set with a single ambition, the valorization of energy consumption, expressed in actions:

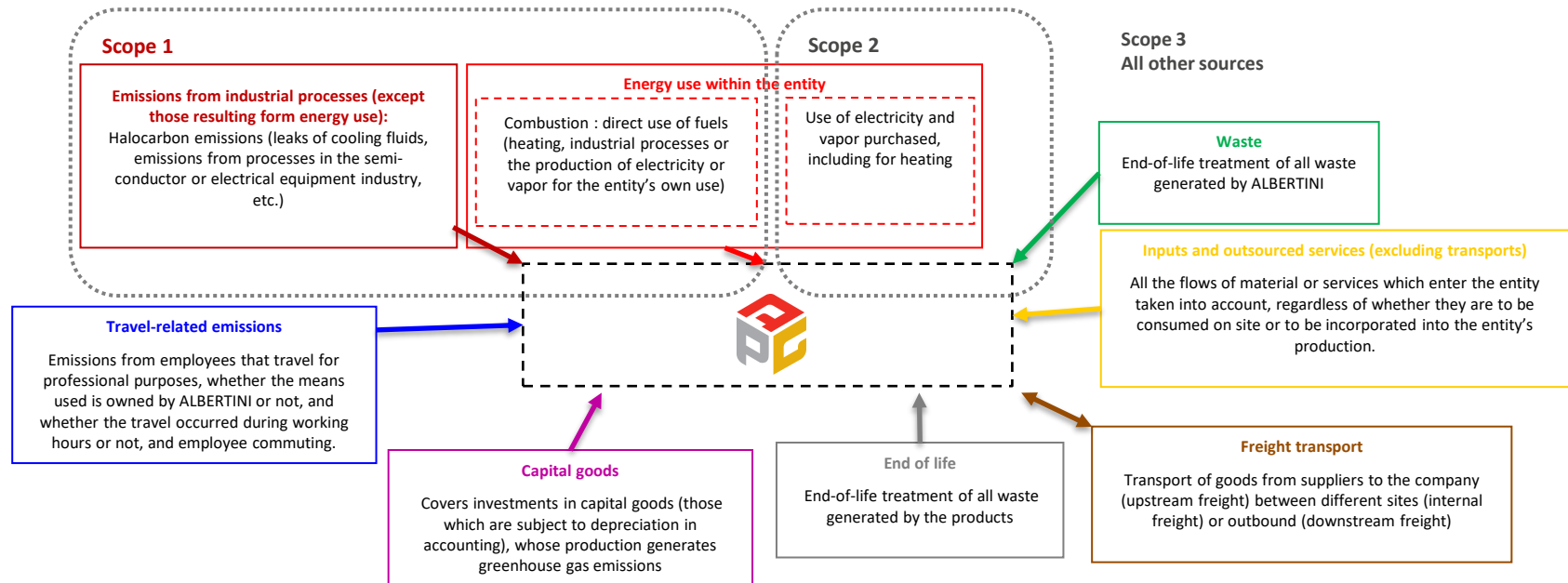
- the use of renewable energy (geothermal and solar),
- energy efficiency of your activities (switching to hybrid cars for your car fleet and LED lighting for your plants).

Albertini Packaging Group pursued its ambition by carrying out an assessment of the GHG footprint of its business (reporting year: 2018).

Scope of the study

Sources of emissions taken into account

The emission sources taken into account as part of the GHG Protocol methodology are the following:



Method

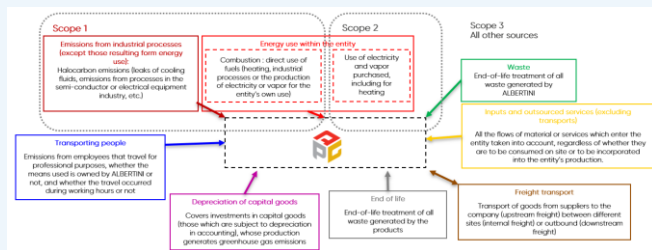
Used to calculate the carbon footprint

The method used to calculate your carbon footprint is broken down in 3 phases:

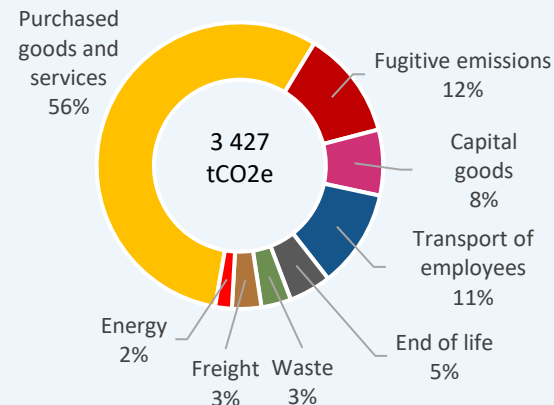
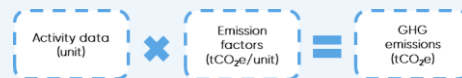
Based on the data collected...

... and of emission factors (ADEME, Ecoinvent, DEFRA..) ...

... to assess ALBERTINI's carbon footprint ...



For missing data, assumptions were made.

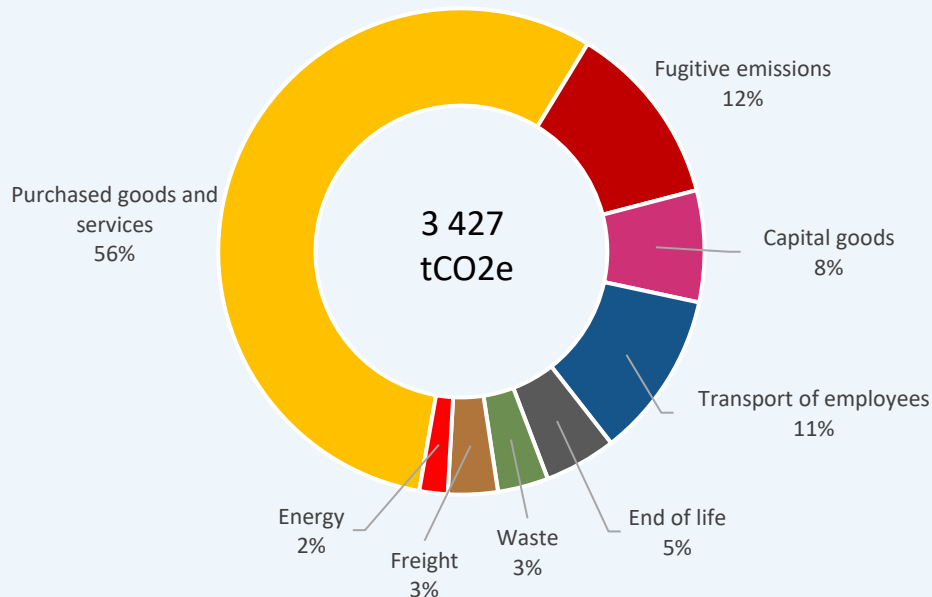




2. Global results

Global results

Distribution by emission source



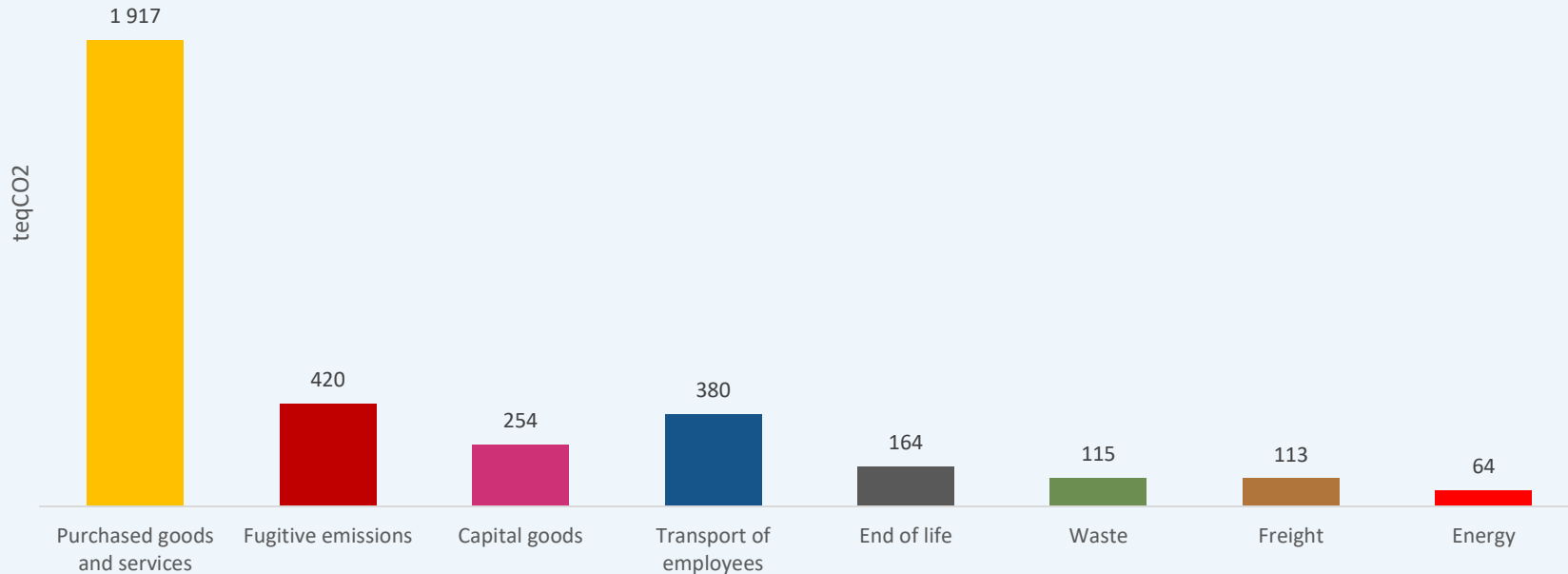
GHG emissions from **purchased goods and services** account for **56%** of ALBERTINI's carbon footprint

Key indicators

- 22,2 tCO₂e/FTE
- 0,1 tCO₂e/m²

Global results

Distribution by entity



Global results

What does it mean?

3 427 tCO₂e emitted in a year represents :

GHG emissions from 338 round trips by car

GHG emissions from 3 864 round trips from Paris to New-York by plane

GHG emissions from 281 Europeans over one year

GHG emissions from 2 678 computers fabrication

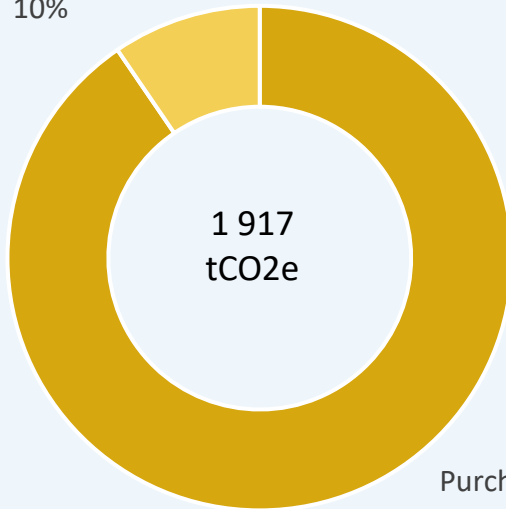


3. Detailed results

Focus on purchased goods and services

56% of ALBERTINI's carbon footprint – 1 917 tCO₂e

Purchased services
10%



1 917
tCO₂e

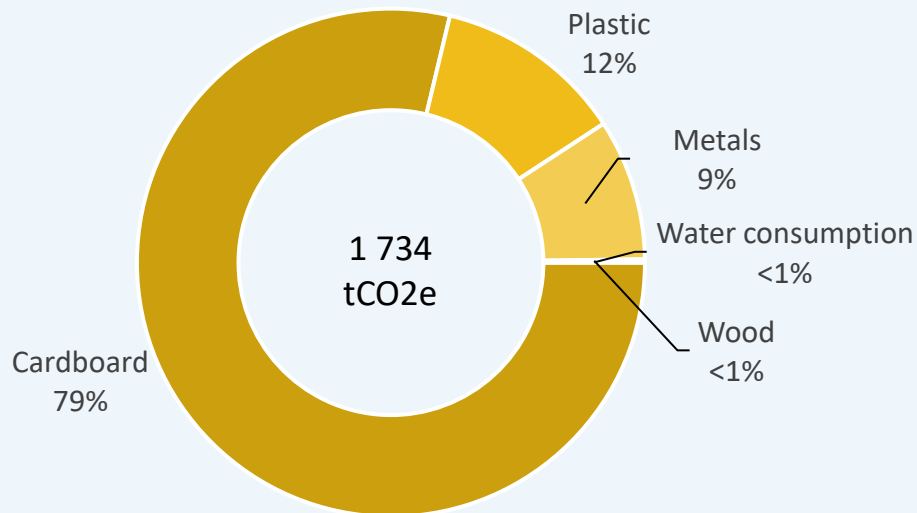
Purchased goods
90%

- **Perimeter :**

Purchases of materials and services related to the activities of the ALBERTINI during the 2018 reporting year.

Focus on purchased goods

90% of purchased goods & services – 1 734 tCO₂e



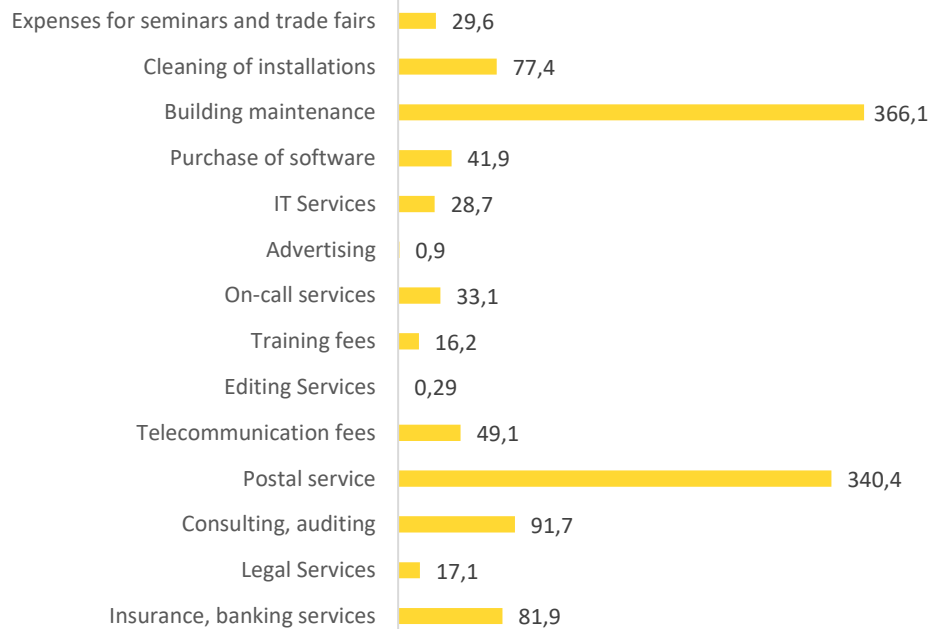
- **Calculation methodology :**

- Miscellaneous purchases (cardboard, paper, metal, etc.) were accounted for in tons;
- The amounts for services were provided by ALBERTINI and divided into major categories of purchases corresponding to the various emission factors available;
- The amounts for services were provided by ALBERTINI for water consumption in litres.

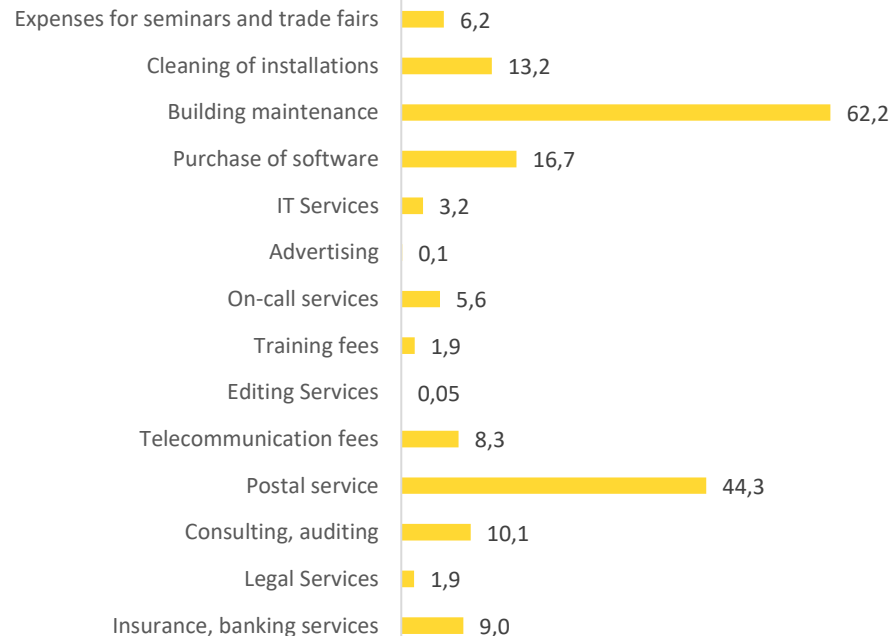
Focus on purchased services

10% of of purchased goods & services – 183 tCO₂e

€



tCO₂e



Focus on purchased goods and services

Identification of actions



Albertini purchases FSC-certified paper and board.

Reduction actions

Implement a responsible purchasing policy

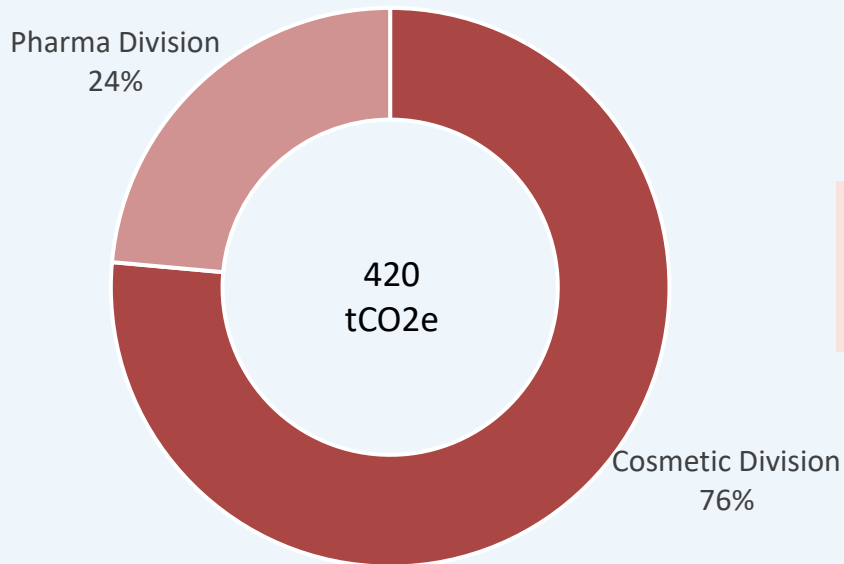
- Promote sustainable sourcing as a priority pillar and encourage the use of quality, sustainably sourced raw materials, whether recycled or virgin fibre or plastics.
- Develop traceability project, high-quality recycling activities (reduce high contamination and packaging toxicity) and buy-back and take-back programmes for polypropylene (PP) and high-density polyethylene (PE) products.
- Evaluation of suppliers on their social responsibility by establishing a code of good practice for suppliers

Machine and raw material reuse

- Develop partnerships with pallet trucks supplier in order that they buy engines after 5 years. This will allow a renewal of the equipment and ensure a sustainable activity for the supplier who refurbishes and resells them on the second-hand market.
- Development and testing of new packaging made in conjunction with a local supplier.
- Strengthen the monitoring of the number of products sold per year to buy products linked to sales in a rational way and limit waste.
- Work on the management of rental pallets.

Focus on fugitive emissions

12% of ALBERTINI's carbon footprint – 420 tCO₂e



- **Calculation methodology :** Associated GHG emissions were calculated using the quantity of refrigerant recharged in air conditioning systems in 2018.

Focus on fugitive emissions

Identification of actions

Reduction actions

Migration to less emitting refrigerants

- Low Global Warming Potential refrigerants such as HFO refrigerants
- Switch to natural refrigerants (the ideal option) such as CO₂, ammonia and propane

Continuous improvement and prevention of fugitive emissions

- Diagnosis and preventive maintenance
- Additional content of refrigeration service contracts: supervision, level of reporting, review of contracts and recommendations for improvement, introduction of an environmental performance commitment for installations (leakage rates, incidents, etc.), etc.

Focus on capital goods

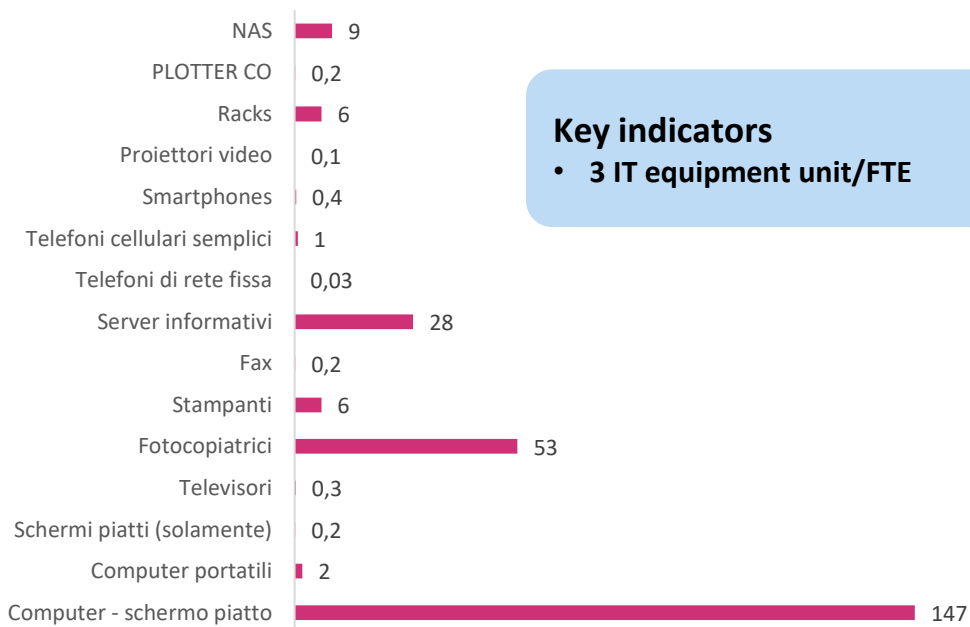
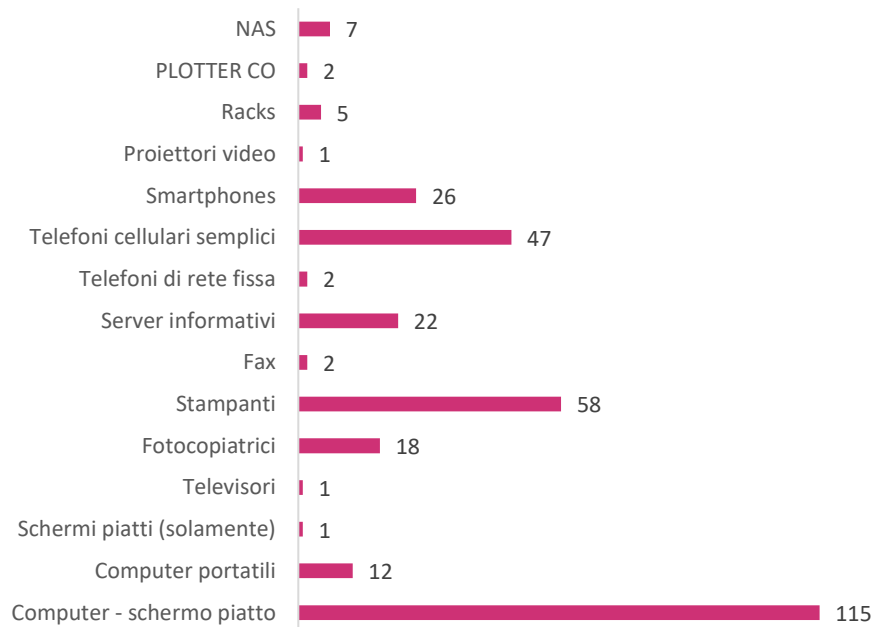
8% of ALBERTINI's carbon footprint – 254 tCO₂e

units

tCO₂e

Key indicators

- 3 IT equipment unit/FTE



Focus on capital goods

Identification of actions

Reduction actions

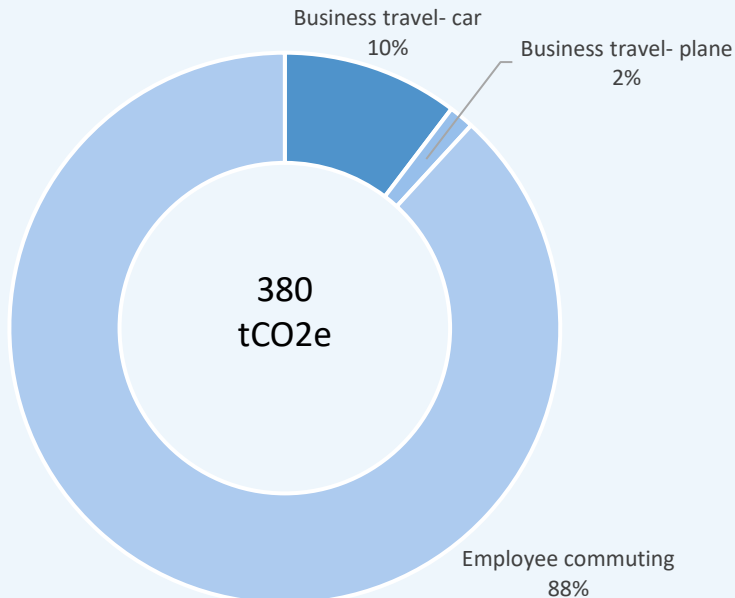
Extend the useful life of equipment

- Vehicles, IT equipment, furniture, machines

Include environmental clauses in calls for tenders for IT equipment

Focus on transport of employees

11% of ALBERTINI's carbon footprint – 380 tCO₂e



Key indicators (km/FTE)

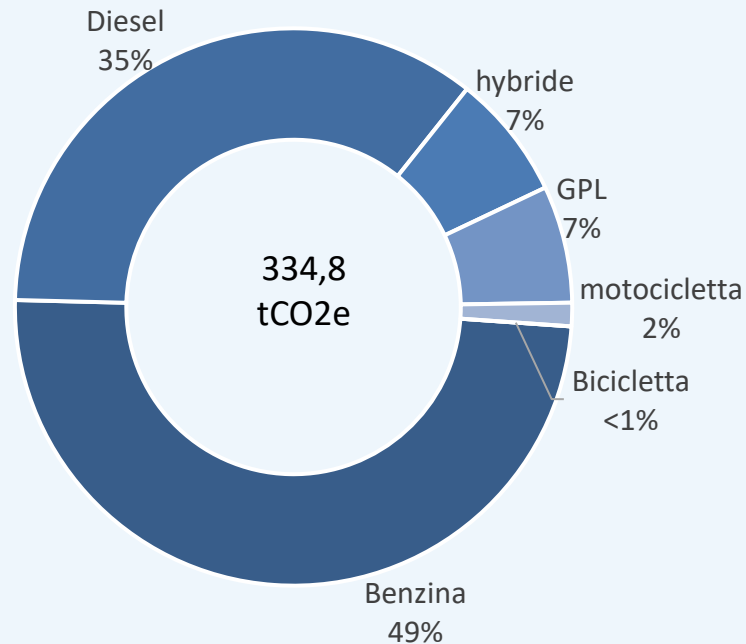
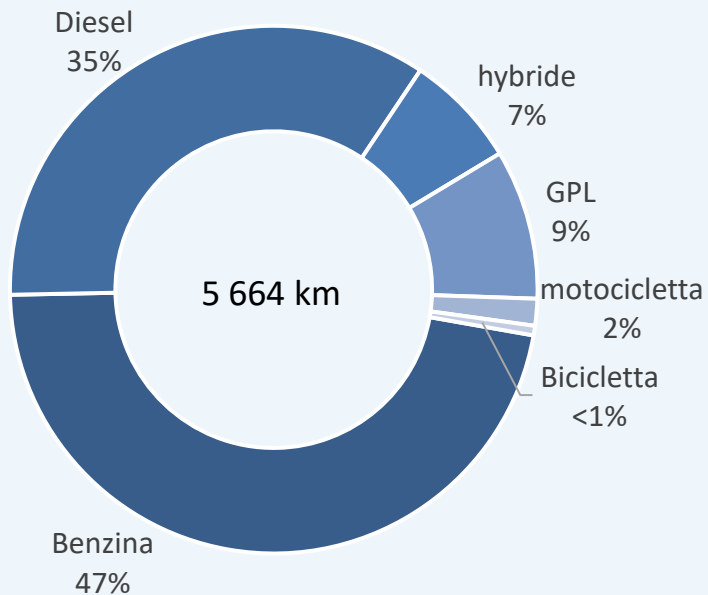
- Business travel by plane : 148 km/FTE
- Employee commuting : 39 km/FTE

Business travel by car

39,3 tCO₂e are from mobile sources (gasoline and diesel), which represents 2 120 000 km. We obtained this result by converting liters in km using the following data : 4,5l/100 km for gasoline and 3,6l/100 km for diesel.

Focus on employee commuting

88% of transport of employee – 334,8 tCO₂e



Focus on transport of employees

Identification of actions



Albertini is currently replacing diesel cars by hybrid ones. To date, 40% of company cars use hybrid fuel.

Reduction actions

Raise employees' awareness of the use of low-emission transport

- Raise awareness of the use of low-emission transport using internal communication and workshops (advertising posters, etc.)
- Installation of charging stations

Propose strategic solutions for the use of public transport and less emissive transport

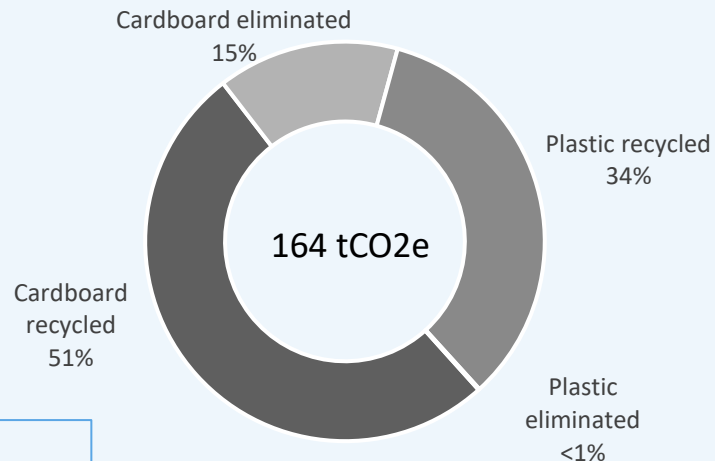
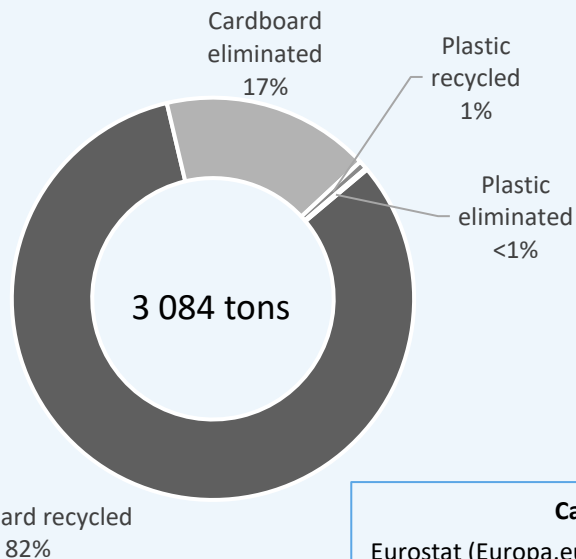
- Encourage employees to use public transport by choosing to set up warehouses near bus, metro, tramway networks, etc...
- Promote cycling by providing safe shelters and parking spaces near shops (e. g. transforming car parking spaces into bicycle parking spaces).
- Promote electric vehicles use by providing electrical charging station in parking spaces
- Make shuttles available to employees from the nearest public transport station to the site.

Focus on the end of life of the products

5% of ALBERTINI's carbon footprint – 164 tCO₂e

Key indicators

- Cardboard : 21 t/FTE
- Plastic : 0,2 t/FTE



Calculation source :

Eurostat (Europa.eu) was used to estimate the percentage of waste recycled/eliminated for Italy : 83,1% recycled and 16,9% eliminated

Focus on the end of life of the products

Identification of actions

Reduction actions

Identify ecodesign options for the products

- Identify options to develop bio-based packaging to optimise end-of-life treatment

Enhance recyclability of packaging

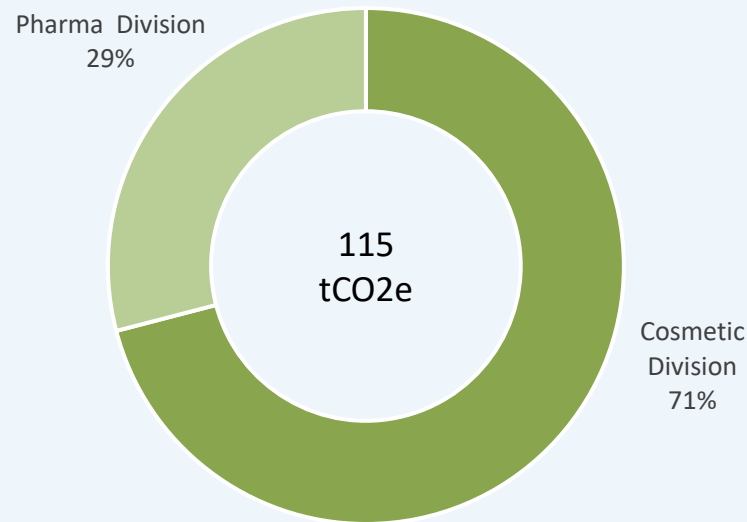
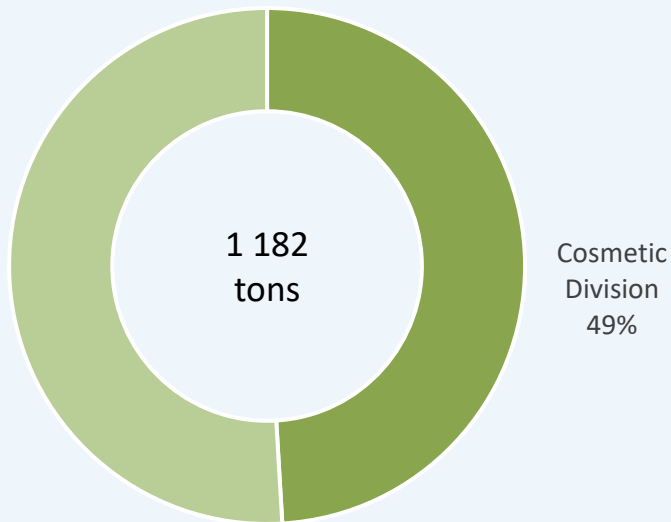
- Inform the customer of recycling options

Focus on waste

3% of ALBERTINI's carbon footprint – 115 tCO₂e

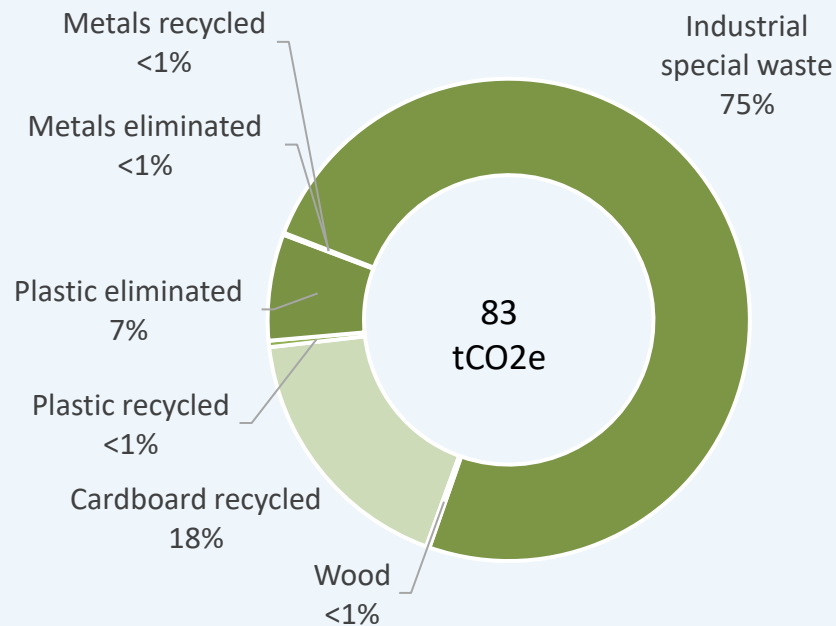
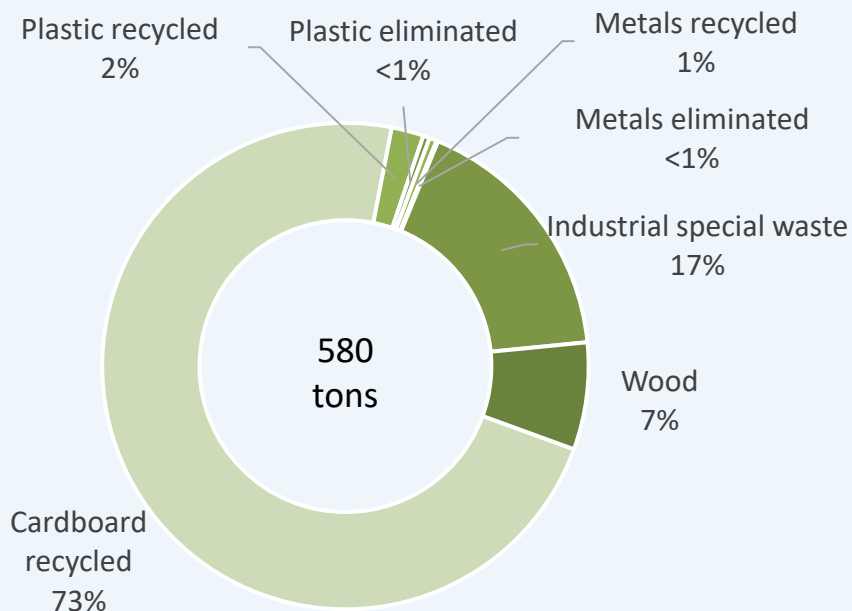
Key indicators

- Cosmetic division : 4 t/FTE
- Pharma division : 4,1 t/FTE



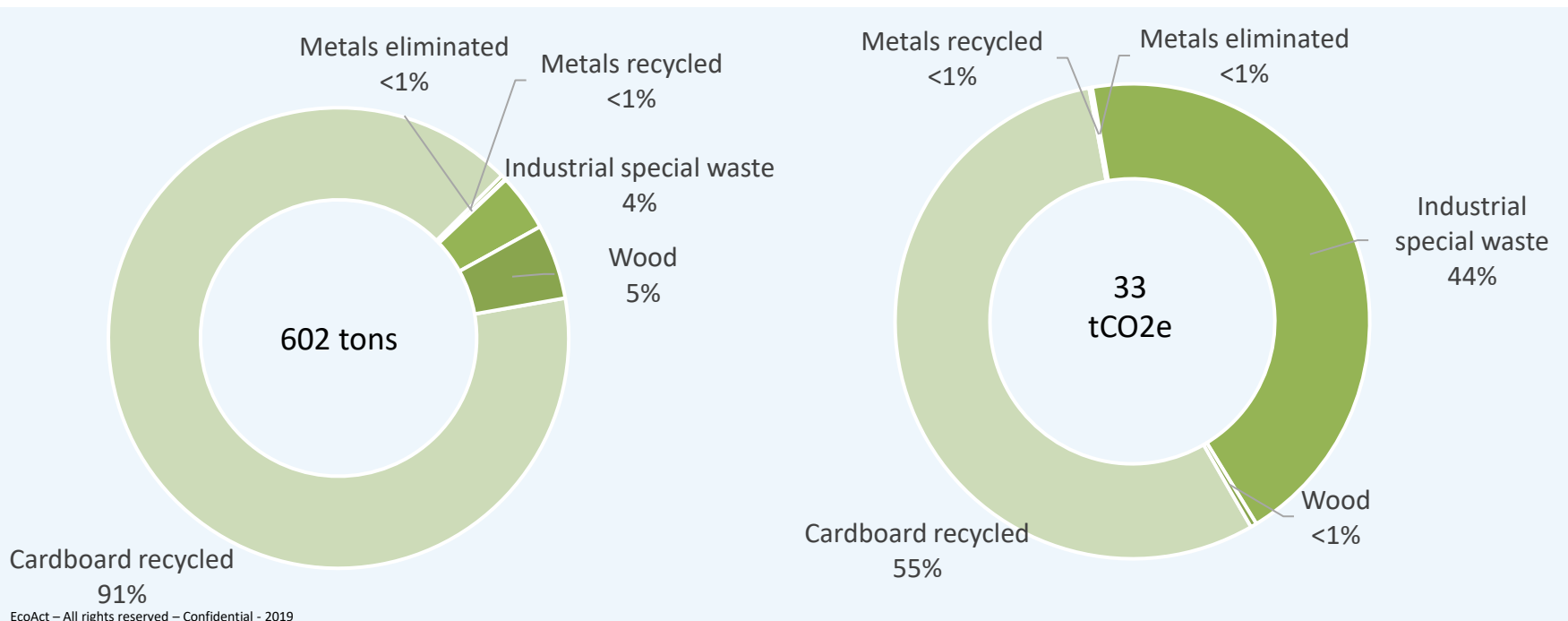
Focus on waste : Cosmetic Division

83 tCO2e



Focus on waste : Pharma Division

33 tCO₂e



Focus on waste

Identification of actions



The majority of Albertini's waste is currently being recycled.

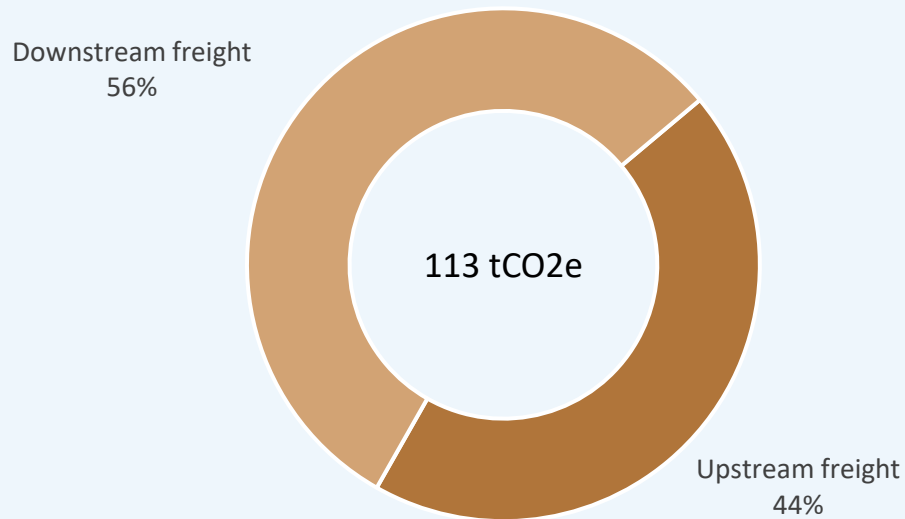
Reduction actions

Waste prevention

- Optimization of transport packaging
- Use of reusable media (reusable delivery media (roll, pallets, bins etc.)

Focus on Freight

3% of ALBERTINI's carbon footprint – 113 tCO₂e



Calculation source :

- Downstream freight : consumption of diesel (liters)
- Upstream freight : average distance and tons transported for paper/plastic and inks

Focus on transportation and distribution

Identification of actions

Reduction actions

Emission source reduction

- Reduce the weight or volume of a package to optimize costs (transport and storage) by reducing purchased volumes
- Promote maritime, inland navigation and rail freight where possible and limit the use of small trucks on long distances when possible.
- Promote the production of local packaging and packaging systems & engines or more broadly on a European scale.
- Innovation : use of new engines for storage equipment and use of biogas fuel
- Telematics

Reduce downstream freight

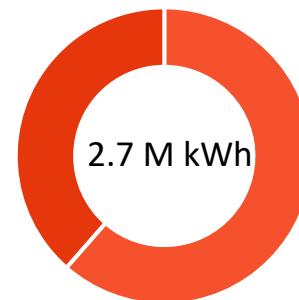
- Promote the decentralisation of warehouses
- Use computer tools for route optimization
- Optimize last mile logistics and truck filling
- Developing eco-driving
- Avoid returning empty tours

Focus on energy

2% of ALBERTINI's carbon footprint – 64 tCO₂e

Use of electricity (kWh)

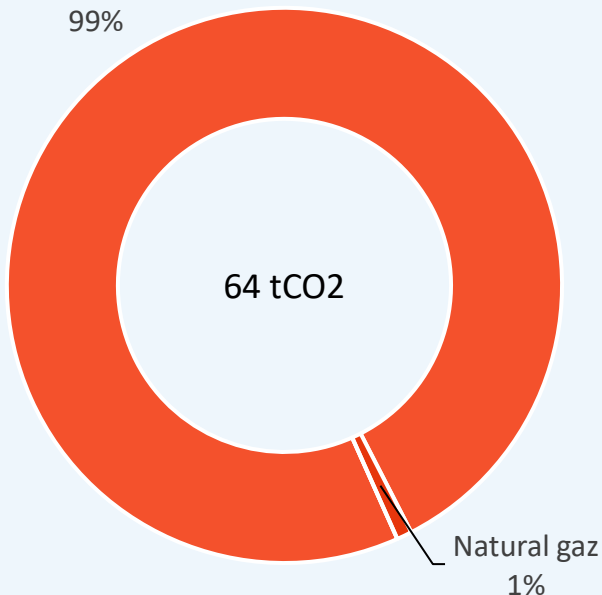
Pharma
Division
39%



Cosmetic
Division
61%

ecoact

Electricity
99%



• Calculation methodology :

- GHG emissions related to electricity were calculated using the consumption in kWh recorded on the invoices for the year 2018.
- GHG emissions related to heating were obtained from the consumption of fuel oil (in m³) and natural gas (in kWh).

➤ Low results are due to the use of renewable energy

Focus on energy

Identification of actions



100% of Albertini's energy consumptions are supplied by renewable energy sources, leading to low energy-related emissions. A LED lighting system has been implemented in the 2 production plants.

Reduction actions

Raise awareness among all people occupying the buildings

- Turn off your computer when you leave your office, turn off the heating when rooms are ventilated, reduce heating and air conditioning, turn off the lights in unoccupied rooms, choose equipment that uses less energy and is adjustable, etc.

Improve temperature control in offices

- The temperature recommended by the ADEME in buildings is 19°C in winter and 26°C in summer.

Contact



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