

Executive Summary

This is the fourth carbon footprint of FREITAG lab. ag (from now on referred to as FREITAG) for the year 2022. The total footprint of FREITAG accounts for 3,204 t CO₂¹ in 2022. Thereby, FREITAG emits 16 t CO₂ per full-time employee in 2022. In terms of products, 6.2 kg CO₂ are emitted per product sold.

Table 1: CO₂ emissions by source

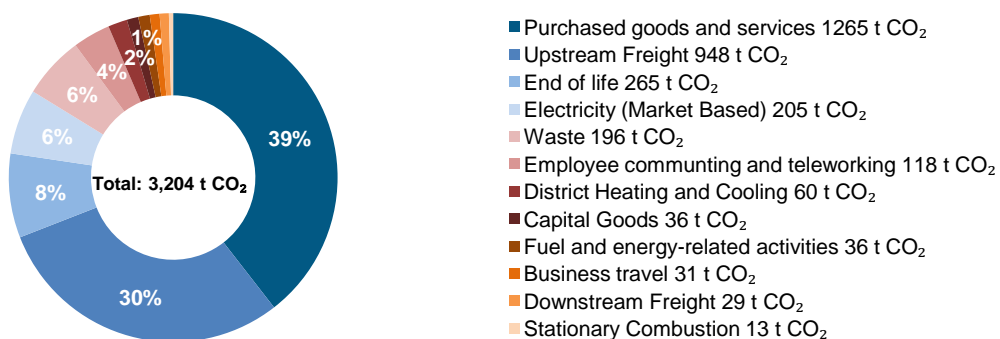
Scope	Emissions (t CO ₂)	% of total
Scope 1: Direct emissions	13	0.4
Scope 2: Indirect emissions from purchased electricity, heating and cooling	266	8
Scope 3: Other indirect emissions	2,925	91
Total emissions	3,204	100

As seen in the table 1 above, in scope 1, the total amount of direct emissions adds up to 13 t CO₂. These are emissions that occurred in stationary combustion due to the use of fossil fuels as energy source for heating. Therefore, direct emissions account for approximately 0.4% of the total CO₂ footprint. The sum of indirect emissions (scope 2) amounts to approximately 266 t CO₂. Therefore, indirect emissions represent 8% of the total CO₂ footprint. For FREITAG, indirect emissions are emissions which occur through the use of electricity and heating (district heating and cooling). With 91% of the total CO₂ footprint, scope 3, the indirect emissions from various business activities, add up to around 2,925 t CO₂. Looking at the overall emissions, the following three are the most emission-intensive categories - together, they account for 77% of FREITAG's total CO₂ footprint:

- Purchased goods and services (39%, 1,265 t CO₂)
- Upstream freight (30%, 948 t CO₂)
- End of life (8%, 265 t CO₂)

The figure 1 below shows all of FREITAG's emissions. They have been categorised according to the Greenhouse Gas Protocol:

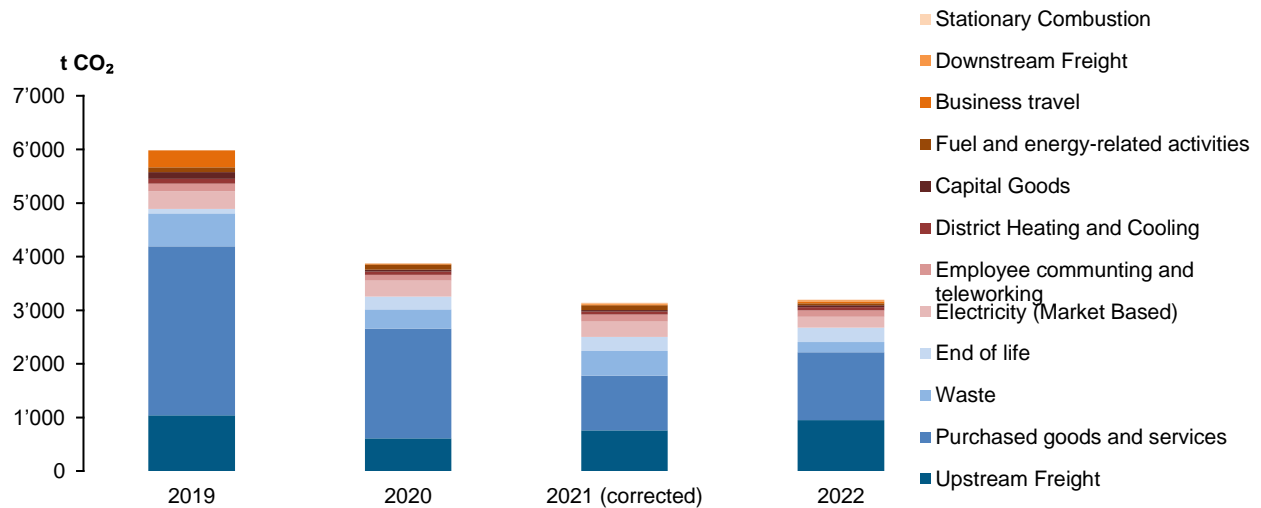
Figure 1: CO₂ emissions by activity in 2022



¹ In the following report the term «CO₂» is used synonymously for «CO₂e» and stands for the sum of CO₂- and other emissions (e.g., methane (CH₄), nitrous oxide (N₂O)).

In the year 2022 new components have been added to the CO₂ accounting: Waste produced at “Agenten und Zerlegplatz” has been included for the first time. Furthermore, a commuting survey has been conducted to get better understand employee mobility. Also, calculation methodologies and emission factors have been adapted in some categories to gain a better understanding of the emissions, also resulting in an increase of total emissions by 2 % (65 t CO₂) compared to the previous year. Compared to 2019, total emissions decreased by 46 % (-2,778 t CO₂).

Figure 2: Development of CO₂ emissions and intensity



Sustainability has played a central role for FREITAG since the first Messenger Bag by the FREITAG brothers. To date, numerous measures have been developed on every level of sustainability at FREITAG. Still many levers to further reduce emissions are for FREITAG to be implemented, including the areas of waste reduction, business travel and transportation.