



EUROSWITCH
excellence in sensors

CORPORATE **CARBON FOOTPRINT**

Scope 1 & 2

Year 2025

01

**EMISSIONS
QUANTIFICATION**



Emissions quantification

UNI EN ISO 14064-1
– Category 1 and 2



UNI EN ISO 14064-1:2018 provides for the division of emission sources into six different categories:

CATEGORY 1 •

DIRECT GHG EMISSIONS: related to direct greenhouse gas (GHG) emissions by the organization during the year of analysis (2025). The value of the emissions is reported in tons of CO₂ equivalent.

CATEGORY 2 •

INDIRECT GHG EMISSIONS FOR IMPORTED ENERGY: This category refers to indirect emissions related to the consumption of electricity from the national grid. The value of the emissions is reported in tons of CO₂ equivalent.

CATEGORY 3 • Indirect emissions for transportation.

CATEGORY 4 • Indirect emissions for products used by the organization

CATEGORY 5 • Indirect emissions associated with the use products from the organization

CATEGORY 6 • Indirect emissions from other sources.

THIS ANALYSIS REPORTS BOTH 2024 AND 2025 DATA.

DIRECT AND INDIRECT GHG EMISSIONS

Category 1 and 2

Category	Activity type	Quantity	UoM	Quantity 2	UoM 2	EF	UoM (EF)	EF Source	tCO ₂ eq	Weight
1 - Direct emissions	Natural gas	16.867	Sm ³	0,60	TJ	56,791	tCO ₂ eq/TJ	Tabella parametri standard nazionali - ISPRA 2025	33,80	19,0%
						0,001	tCO ₂ eq/TJ	IPCC Stationary Combustion (tab 2,3) (CH4)	0,00	0,0%
						0,000	tCO ₂ eq/TJ	IPCC Stationary Combustion (tab 2,3) (N2O)	0,00	0,0%
	Diesel for the company fleet	15.707	l	13.115,08	kg	3,169	kgCO ₂ /kg	Tabella parametri standard nazionali - ISPRA 2025	41,56	23,3%
						0,000	kgCO ₂ e(CH4)/kg	DEFRA 2025 - Fuels - Diesel (100% mineral diesel) - kg CH4	0,00	0,0%
						0,039	kgCO ₂ e(N2O)/kg	DEFRA 2025 - Fuels - Diesel (100% mineral diesel) - kg N2O	0,51	0,3%
	Petrol for the company fleet	5.476	l	4.057,58	kg	3,152	kgCO ₂ /kg	Tabella parametri standard nazionali - ISPRA 2025	12,79	7,2%
						0,011	kgCO ₂ eq(CH4)/kg	DEFRA 2025 - Fuels - Petrol (100% mineral petrol) - kg CH4	0,04	0,0%
						0,008	kgCO ₂ eq(N2O)/kg	DEFRA 2025 - Fuels - Petrol (100% mineral petrol) - kg N2O	0,03	0,0%
	F-Gas	0	kg				GWP	IPCC - Sixth Assessment Report (AR6)		0,0%
Total category 1 - Direct emissions									88,7	49,8%
2 - Indirect emissions for imported energy	Electricity from the national grid	339,34	MWh			0,264	kgCO ₂ e/kWh	Ecoinvent - market for electricity, low voltage (IT) - electricity emission factors, Scope 2 all GHGs	89,50	50,2%
	Self produced and self consumed electricity from photovoltaic system	138,37	MWh			0	kgCO ₂ e/kWh	Energy from renewable source	0,0	0,0%
Total category 2 - Indirect emissions for imported energy									89,5	50,2%
TOTAL									178,2	100,0%

Direct and indirect emissions

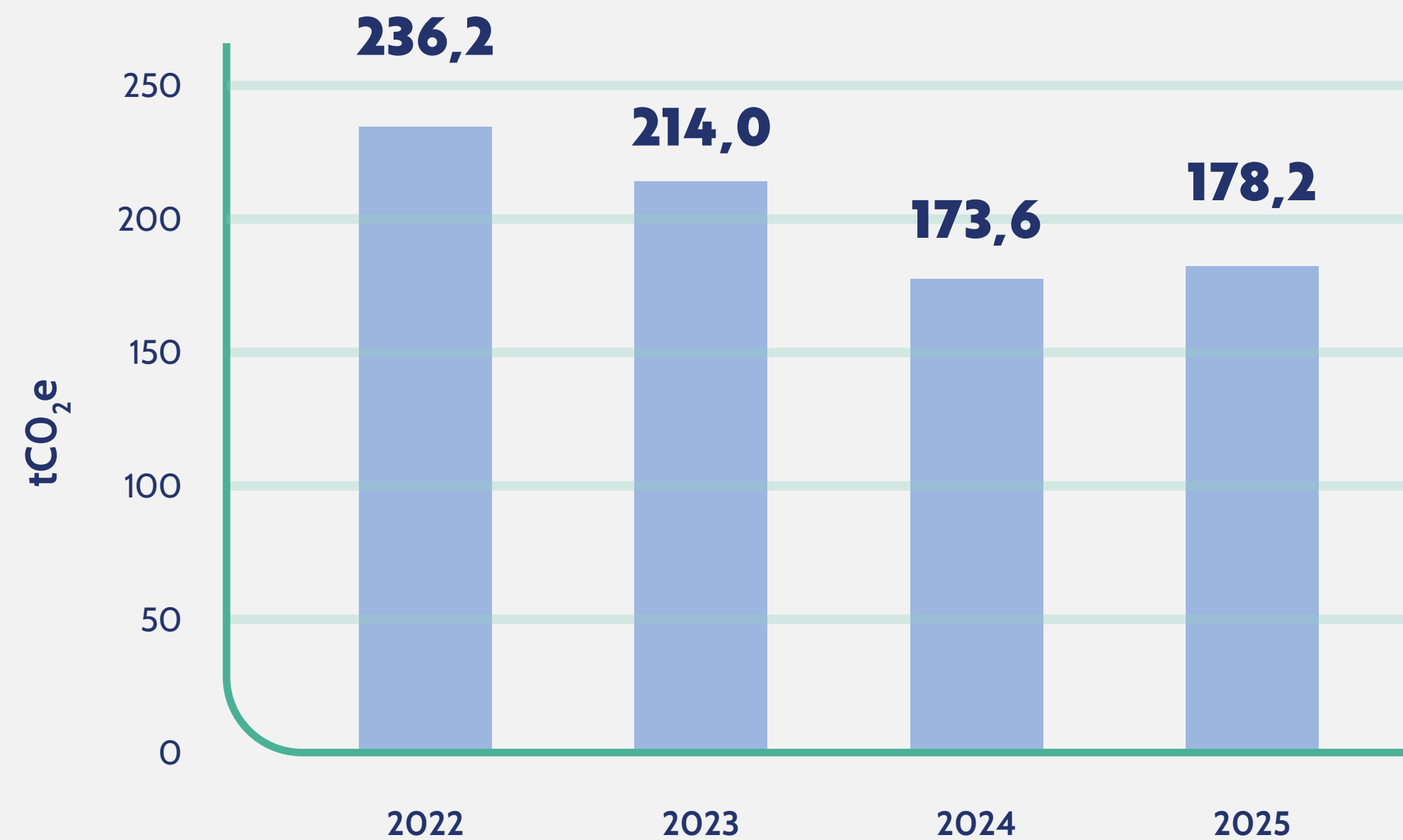
2022-2025 comparison
SCOPE 1 and 2

In 2025, the total emissions generated by Euroswitch S.p.A. increased by 3% compared to 2024 (approximately +5 tonnes of CO₂e), mainly due to company growth and the resulting increase in the use of certain energy carriers (natural gas, diesel, and gasoline).

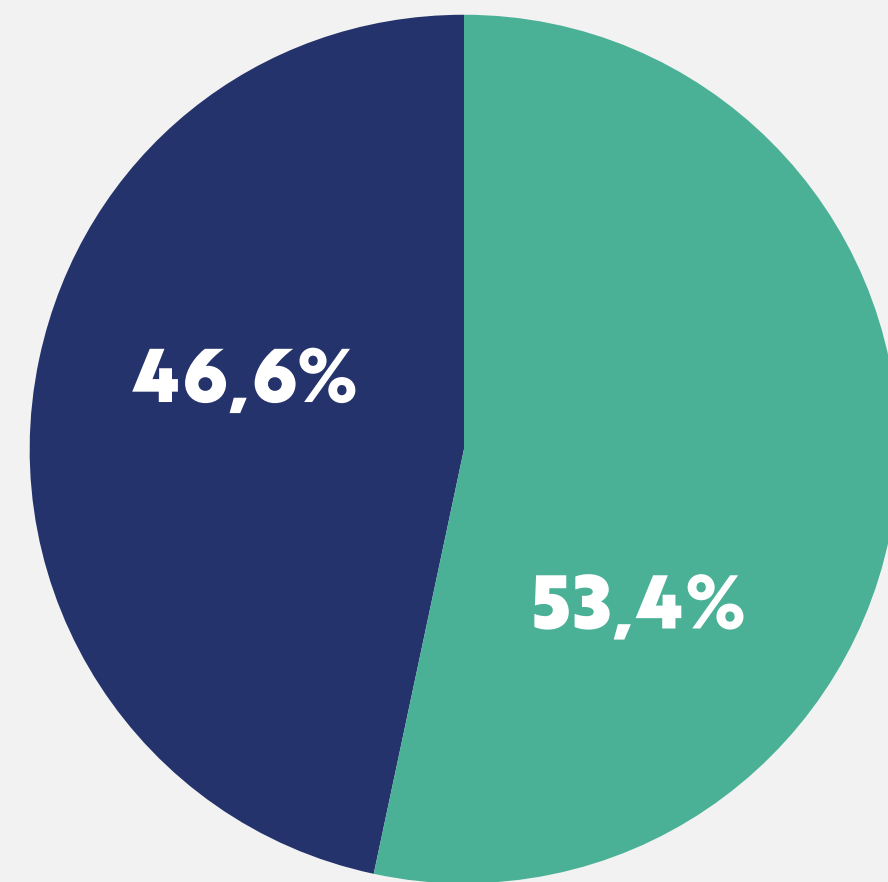
Compared to 2022 (base year), in 2025 total emissions decreased by 25% (location-based scenario).



TOTAL EMISSIONS COMPARISON



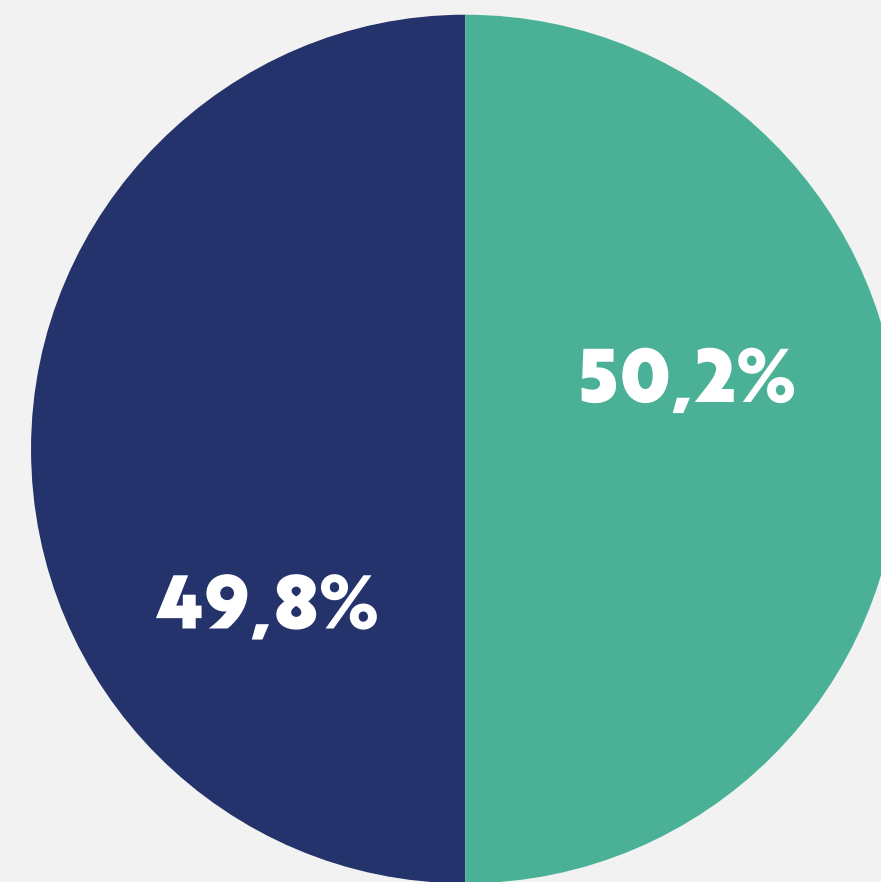
WEIGHT OF THE SINGLE CATEGORY - YEAR 2024



- Indirect emissions from imported energy
- Direct emissions

Figure 1: Direct and indirect GHG Emissions comparison (2024)

WEIGHT OF THE SINGLE CATEGORY - YEAR 2025



- Indirect emissions from imported energy
- Direct emissions

Figure 2: Direct and indirect GHG Emissions comparison (2025)

Direct and indirect ghg emissions

Category 1 and 2



- **Direct and indirect GHG emissions**

**SPECIFIC EMISSIONS
ON PRODUCTION**



0,07 kgCO₂
per single produced sensor

Direct and indirect GHG emissions

Category 1 and 2



DIRECT EMISSIONS CATEGORY 1

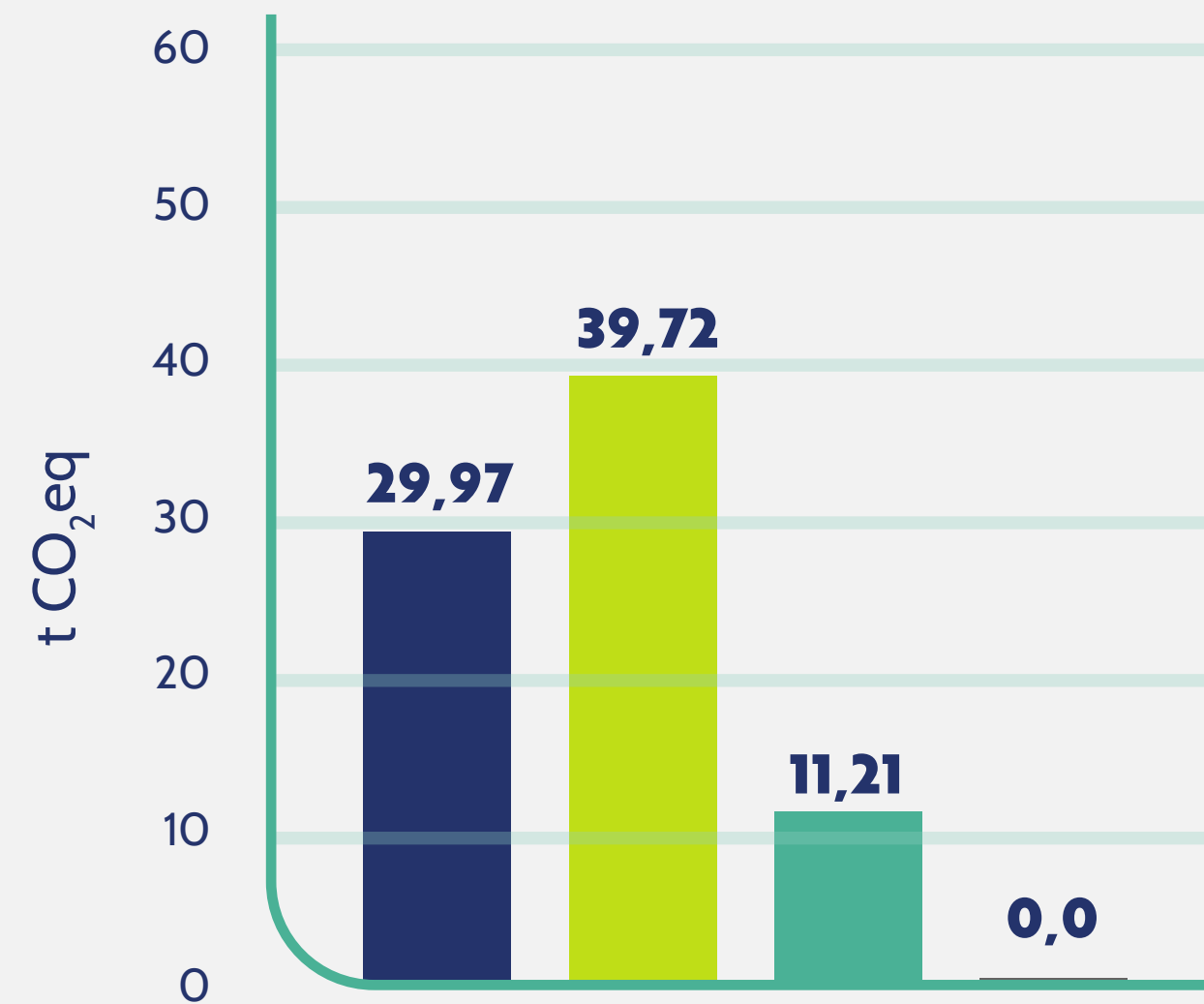


Figure 3: Category 1 composition – direct GHG emissions (2024)

DIRECT EMISSIONS CATEGORY 1

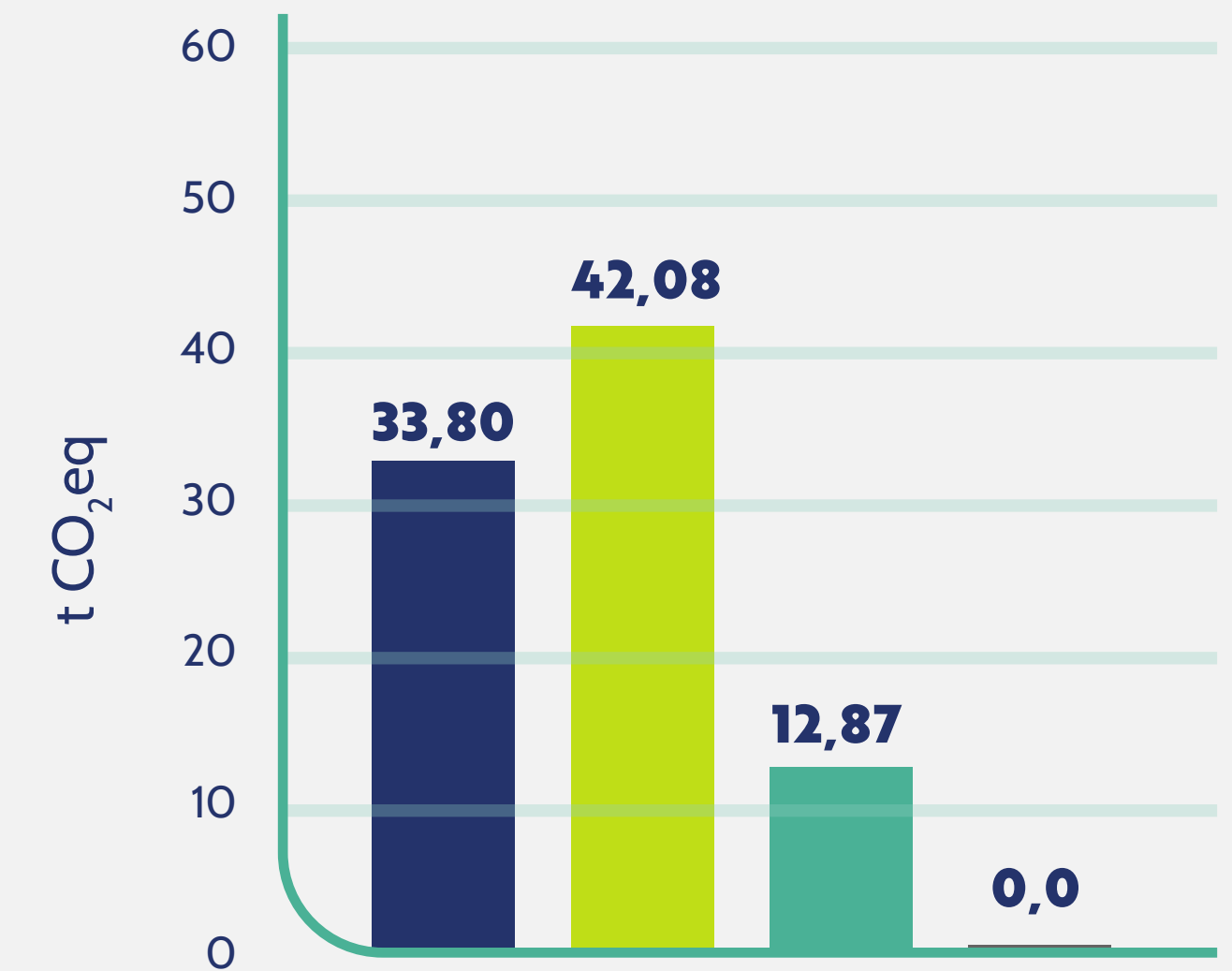


Figure 4: Category 1 composition – direct GHG emissions (2025)

● Natural gas ● Diesel for the company fleet ● Petrol for the company fleet ● F-gas



CATEGORY 2

LOCATION-BASED VS MARKET-BASED SCENARIOS

Two approaches are distinguished for the calculation of category 2 emissions:

Location-based

(ISO 14064-1:2018):

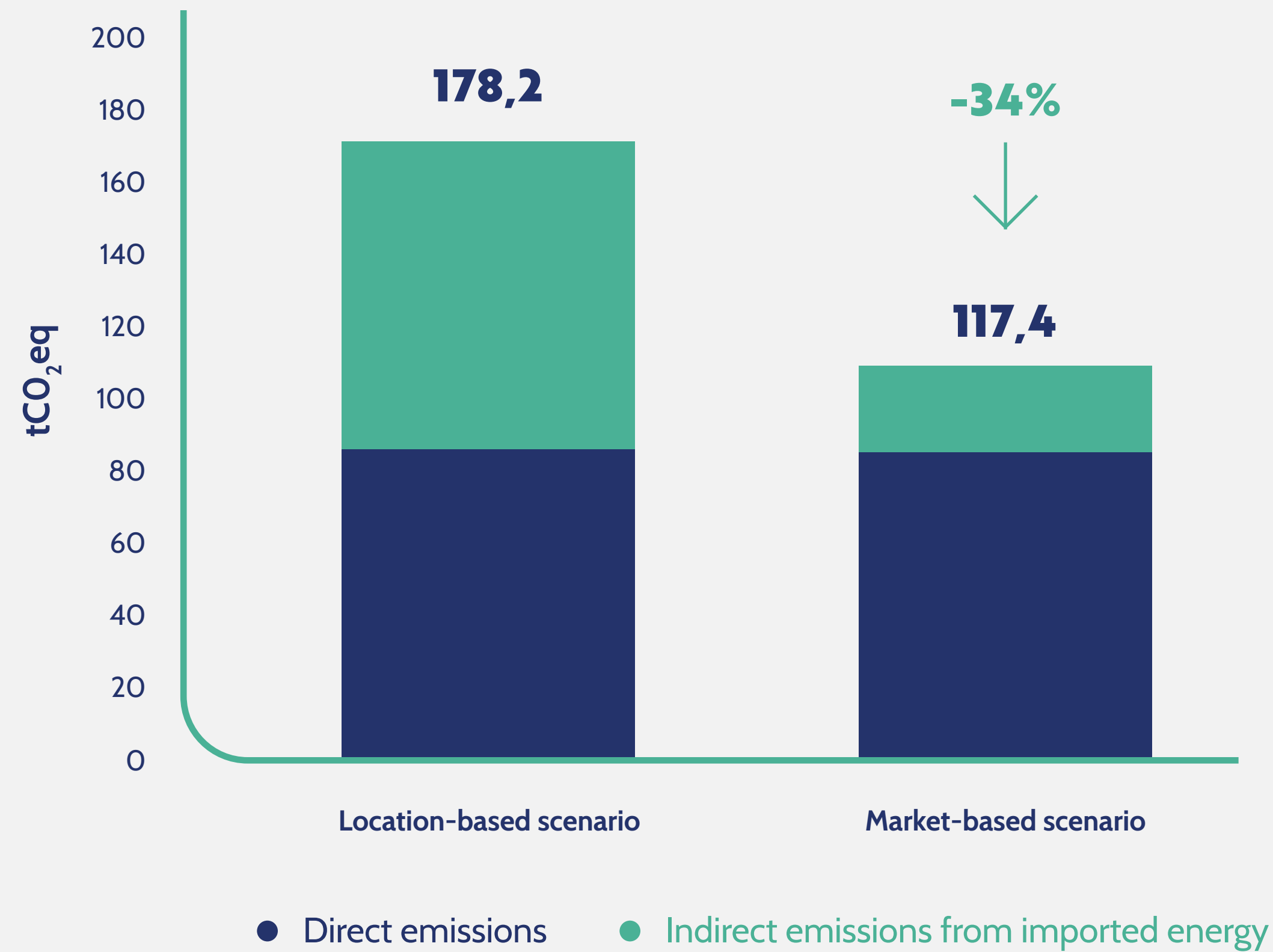
consists of using a national emission factor, which in 2024 was 263,7 kgCO₂/MWh (source: Ecoinvent 3.12)

Market-based: consists of using an emission factor that reflects the supplier's energy mix, taking into account any purchase of Guarantees of Origin. In 2025 Euroswitch purchased 75% of its electricity from the grid with GO, therefore it was used an emission factor of

84,5 kgCO₂/MWh*

*This emission factor was calculated by combining a 0 factor for Guarantees of Origin and the emission factor for residual mix from Ecoinvent 3.12, according to purchasing proportions (75% GO, 25% residual mix).

SCOPE 1 AND 2 EMISSIONS - MARKET-BASED VS LOCATION-BASED



● **INDIRECT EMISSIONS BY IMPORTED ENERGY - 2025**

In the market-based scenario, scope 1 and 2 GHG emissions are 34% lower than the location-based scenario

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**OUR COMMITMENT
TO REDUCE GHG
EMISSIONS**



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Our commitment to reduce GHG emissions

**GHG EMISSIONS AND
CARBON NEUTRALITY**



In 2022, Euroswitch set a target to reduce its Scope 2 emissions by 30% (compared to the base year 2022) within 2025 and to achieve carbon neutrality (in a market-based scenario) by 2030.

THE FIRST TARGET WAS NOT ONLY MET BUT SIGNIFICANTLY EXCEEDED,

resulting in an overall reduction of 76% between 2022 and 2025. The main actions that have enabled the achievement of such a result were:

installation of a 150 KWp photovoltaic system
at the Pisogne production site, in full operation since 2024 (in 2025, 29% of total electricity consumption came from self-consumption)

Purchase of electricity with guarantees of origin
for increasing portions of withdrawal from the grid: 50% in 2024 and 75% in 2025

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Our commitment to reduce GHG emissions

**GHG EMISSIONS AND
CARBON NEUTRALITY**



SCOPE 2 EMISSIONS TREND (MARKET-BASED SCENARIO)



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Our commitment to reduce GHG emissions

GHG EMISSIONS AND CARBON NEUTRALITY



In terms of total emissions (market-based), from 2022 to 2025, a decline of 43% was recorded.

To achieve the second target of net-zero Scope 1 and 2 emissions (market-based scenario) by 2030, Euroswitch intends to:

Expand the portion of electricity covered by Guarantees of Origin to 100% in 2026
(therefore cutting scope 2 emissions to zero)

Consider energy efficiency measures or alternative fuels to reduce scope 1 emissions

Offsetting residual emissions through the purchase of carbon credits to support “Carbon removal” certified emission reduction projects*

* Voluntary offsets allow companies to offset their emissions by supporting certified emission reduction projects. If ‘Net Zero’ targets are set, these projects must be classified as ‘Carbon Removal’. 1 Carbon Credit purchased corresponds to 1 tCO₂ absorbed or avoided.

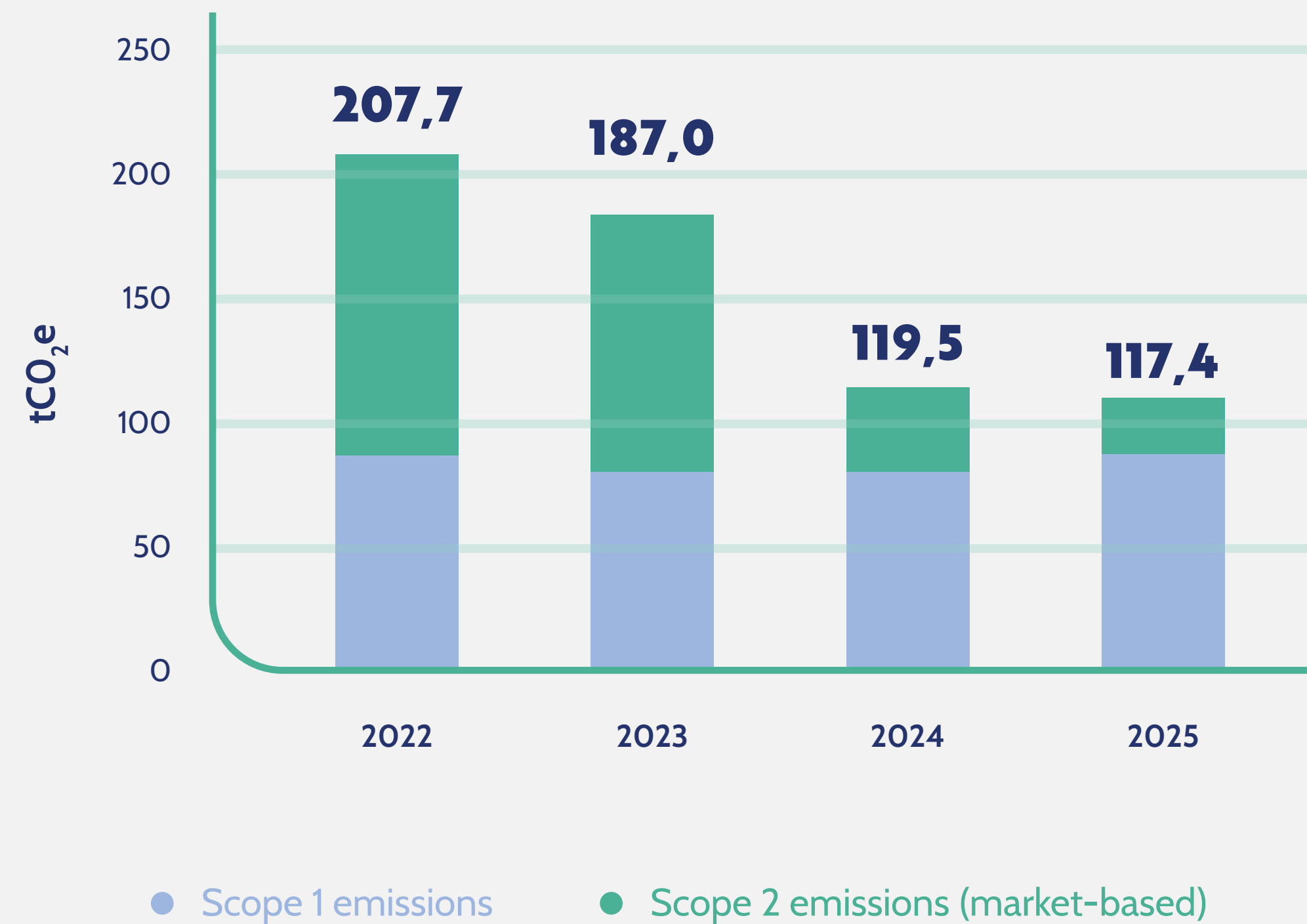
●

Our commitment to reduce GHG emissions

**GHG EMISSIONS AND
CARBON NEUTRALITY**



SCOPE 1 AND 2 EMISSIONS TREND (MARKET-BASED SCENARIO)





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