

EMISSIONS REDUCTION PLAN

ROTHENBERGER S.A. (2022-2026)

Date: 2025.12.16 v.1

1.- INSTALLATION DETAILS

Legal Entity Details			
Company name:	ROTHENBERGER S.A.	Tax ID No.	A48114862
Address:	CTRA DURANGO ELORRIO KM 2		
Postcode:	48220	Municipality:	ABADIÑO (BIZKAIA)
Telephone:	946210100	E-mail:	amaia.langarika@rothenberger.com
Site 1 Details			
Address:	CTRA DURANGO ELORRIO KM 2		
Postcode:	48220	Municipality:	ABADIÑO (BIZKAIA)
Main activity:	DEVELOPMENT AND MANUFACTURING OF TOOLS AND MACHINERY FOR PIPE INSTALLATION SYSTEMS		
Site 2 Details			
Address:	KAPELAMENDI, 22		
Postcode:	01013	Municipality:	VITORIA-GASTEIZ
Main activity:	MANUFACTURING OF PARTS FOR HAND TOOLS THROUGH FORGING AND CASTING		

2.- OBJECTIVE AND SCOPE

The purpose of this document is to comply with *Royal Decree 214/2025 of 18 March, which establishes the carbon footprint registry, carbon offsetting and carbon dioxide absorption projects, and sets forth the obligation to calculate the carbon footprint and to prepare and publish greenhouse gas emissions reduction plans.*

To this end, the calculation of Scope 1 and Scope 2 emissions for the period 2022–2026 is presented. Based on these data, a five-year emissions reduction plan is developed, with the objective of reducing total emissions by 25% compared to 2022 levels, i.e. the equivalent of 516.33 tCO₂e.

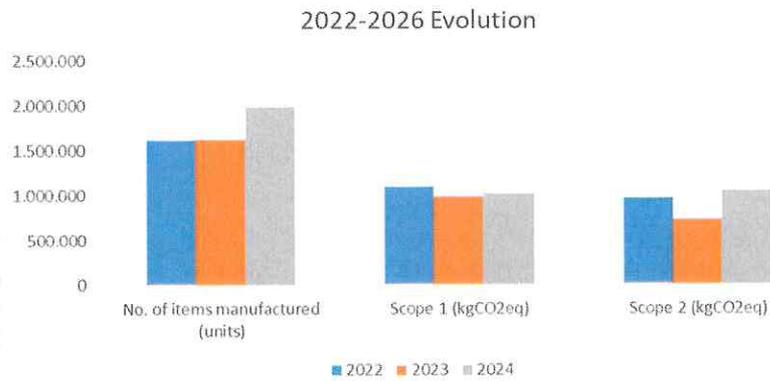
3.- BASELINE SITUATION

Considering the following concepts, a summary table presenting the company's data is provided.

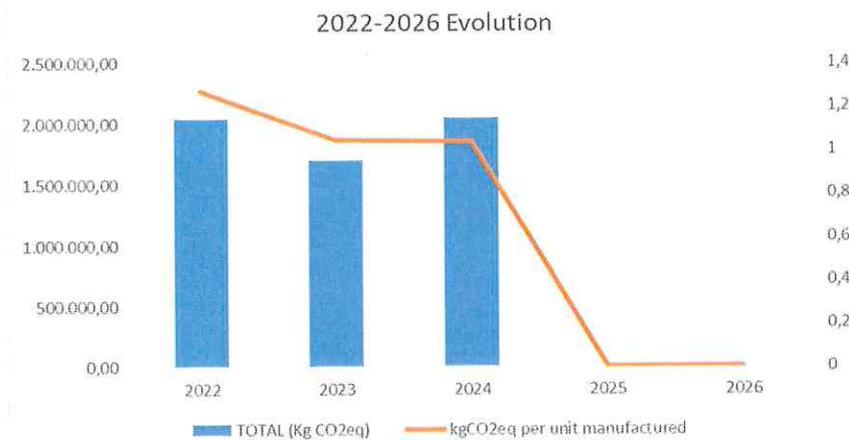
- Scope 1. Greenhouse gas emissions that arise directly from sources owned or controlled by the company, such as combustion in boilers, furnaces, and company-owned vehicles
- Scope 2. Indirect emissions resulting from the generation of purchased energy consumed by the company (generated off-site, such as at a power plant), including electricity used for machinery, lighting, and HVAC systems.
- Scope 3. All other indirect emissions occurring throughout the company's value chain, both upstream (suppliers) and downstream (customers), that are not included in Scope 2, such as raw material transport, employee travel, and waste management..
- tCO₂eq. A standard unit of measurement used to quantify and compare the climate impact of different greenhouse gases (GHGs).

Year	No. of items manufactured (units)	Scope 1 (kgCO ₂ eq)	Scope 2 (kgCO ₂ eq)	TOTAL (kgCO ₂ eq)	kgCO ₂ eq per unit manufactured
2022	1,612,173	1,084,716.39	955,991.16	2,040,707.55	1.27
2023	1,618,082	979,849.96	725,969.99	1,704,688.02	1.05
2024	1,980,630	1,011,345.36	1,041,658.76	2,053,004.11	1.04
2025	-	-	-	-	-
2026	-	-	-	-	-

The charts below show the company's performance over time. As can be observed, overall, the carbon footprint has been reduced. On the other hand, total emissions have increased, as well as the number of manufactured items.



As shown in the figure below, the kgCO₂ per unit manufactured ratio has been decreasing since 2022.



4.- QUANTIFIED EMISSIONS REDUCTION TARGETS

In order to assess the reduction against the 2022 baseline year, the average of the three subsequent years (2023, 2024 and 2025) will be considered.

- Achieve a **25%** reduction in Scope 1 emissions by 2026 (compared to 2022).
- Achieve a **20%** reduction in Scope 2 emissions by 2026 (compared to 2022).
- Quantify Scope 3 emissions by 2030.

4.1.- Specific measures by year

Year	Location	Measure	Estimated reduction		Estimated cost/investment	Monitoring
			Emissions (tCO ₂ eq)	kWh/year		
2025	Abadiño	Replacement of two gas-fired boilers used for shower water heating with an aérothermal heat pump system	172.89 (Scope 1)	686,062	€3,000	Natural gas bill, electricity bill
2026	Abadiño	Lighting technology optimisation	62.43 (Scope 2)	206,726	€41,888	Electricity savings and electricity bill
2022	Abadiño	Installation of solar panels	145.11 (Scope 2)	480,485	€368,000	Self-consumed kWh
2023-2024	Vitoria	Replacement of gas-fired forging furnaces with induction furnaces	134.64 (Scope 1)	1,024,057 kWh (GCV) of gas replaced by 171,058 kWh of electricity.	€280,000	Natural gas bill, electricity bill
2026	Vitoria	Lighting technology optimisation	1.26 (Scope 2)	4,168	€2,135	Electricity bill

In addition to the measures proposed in the table above, the following productivity improvements have been implemented, which directly affect the plant's energy performance.

At the Abadiño site, the following actions have been taken:

- Management actions to reduce consumption in the heat treatment installation.
- Removal of the nitrogen storage tank. Nitrogen for the controlled furnace atmosphere is now generated on site using in-house technology. This improvement has a direct impact on Scope 3 emissions, as supplier transport journeys have been eliminated.

At the Vitoria site, the following improvements have been implemented:

- Modification of the forging process to manufacture more parts per stroke, improving efficiency per unit produced.
- Use of secondary (recycled) aluminium. This material requires significantly less energy for melting while maintaining the same properties as primary aluminium. Secondary aluminium requires up to 95% less energy than primary aluminium.

Taking the above into account, the following summary has been obtained:

	Emissions (tCO ₂ eq)	Energy reduction (kWh/year)	Investment
Scope 1	307.53	1,024,057 kWh(GCV) 515,004 kWh	283,00
Scope 2	208.8	691,379	412,023
TOTAL	516.33	1,024,057 kWh(GCV) 1,206,383 kWh	695,023

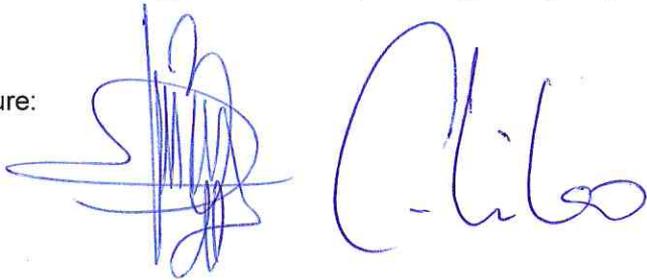
5.- MONITORING AND CONTROL PLAN

Based on the data available at the end of 2024, a real reduction of 9% in Scope 1 emissions and 8% in Scope 2 emissions has been achieved.

In order to ensure continuous monitoring of the implementation of the measures, the following actions are recommended:

- Annual review of the Scope 1 and Scope 2 emissions inventory, including internal reporting and comparison against targets.
- External verification or auditing tools every four years to enhance credibility, particularly where the organisation is subject to regulatory obligations.

Signature:

Two handwritten signatures in blue ink. The first signature is highly stylized and illegible. The second signature is more legible, appearing to read 'Alto'.