

Sustainable Steel made for you



sidenor



COST EFFICIENCY

- Industrial Concentration
- Logistic optimization
- Scrap supply
- Critical Inputs: electricity & gas
- Digitalization

DIVERSIFICATION

- Final Sectors
- Product
- Geographic
- **Corporate**

Energy and Decarbonization

- Green Steel
- Energy Efficiency
- Circular Economy
- Renewable energy

ESG

People

- Diversity
- Career Development
- Equality

Corporate Governance

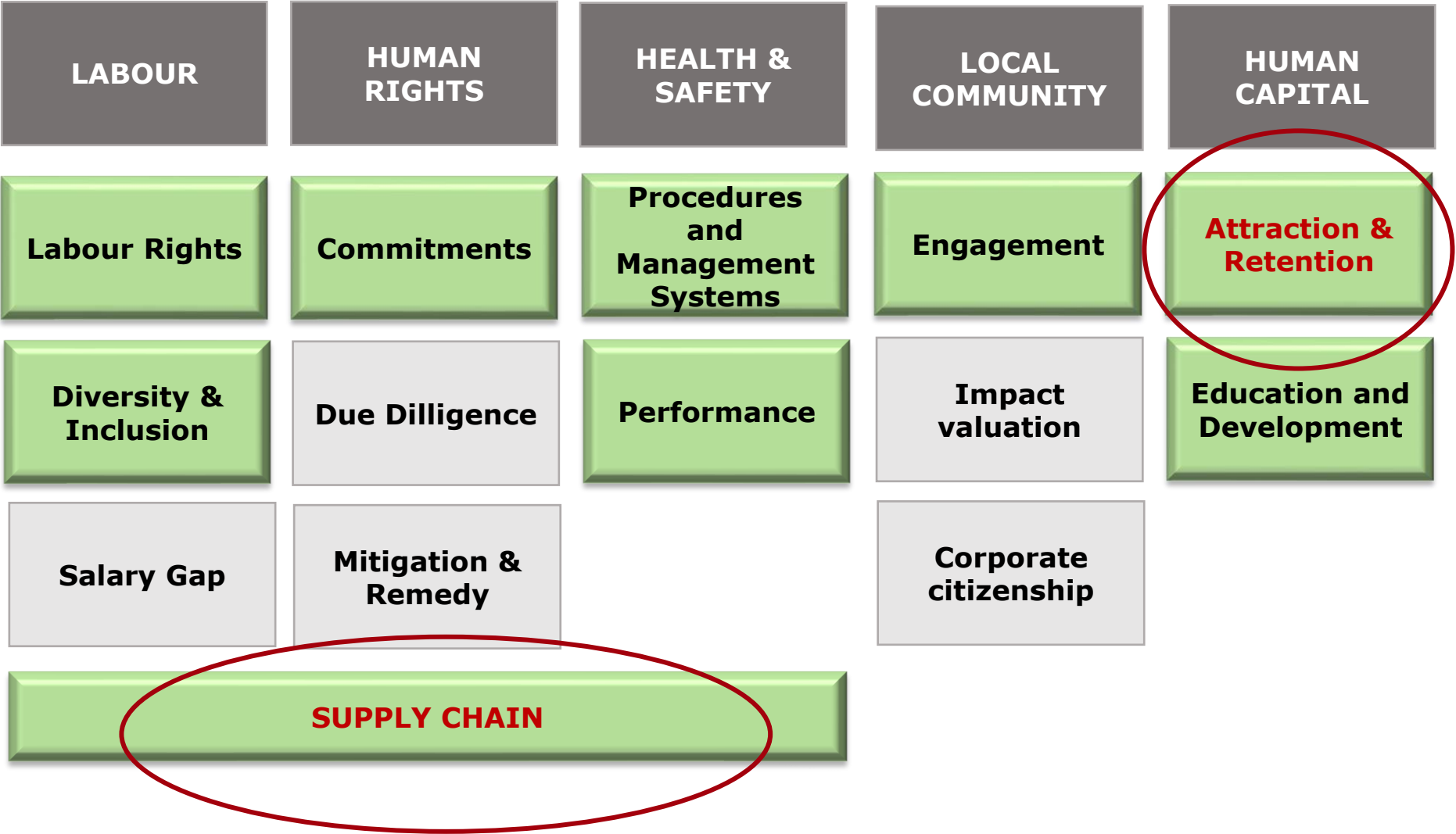
- Transparency
- Compliance: risk assessment

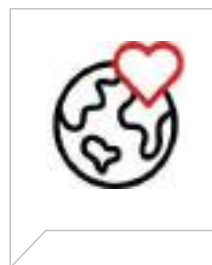
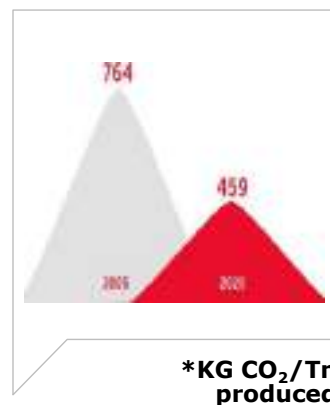
The Sustainable Development Goals (SDGs), launched by the United Nations in 2015 provide a common road map on sustainable development for 2030. **Sidenor supports the implementation of the 2030 Agenda and the Sustainable Development Goals (SDGs)**, recognizing their strategic importance to our business and to the world – we are committed to helping achieve them



Our program works now across 6 Sustainable Development Goals:

- Gender **Equality** (5)
- Industry **Innovation** and Infrastructure (9)
- **Responsible** Consumption and Production (12)
- Good **Health** and Well-Being (3)
- Quality **Education** (4)
- **Climate** action (7)





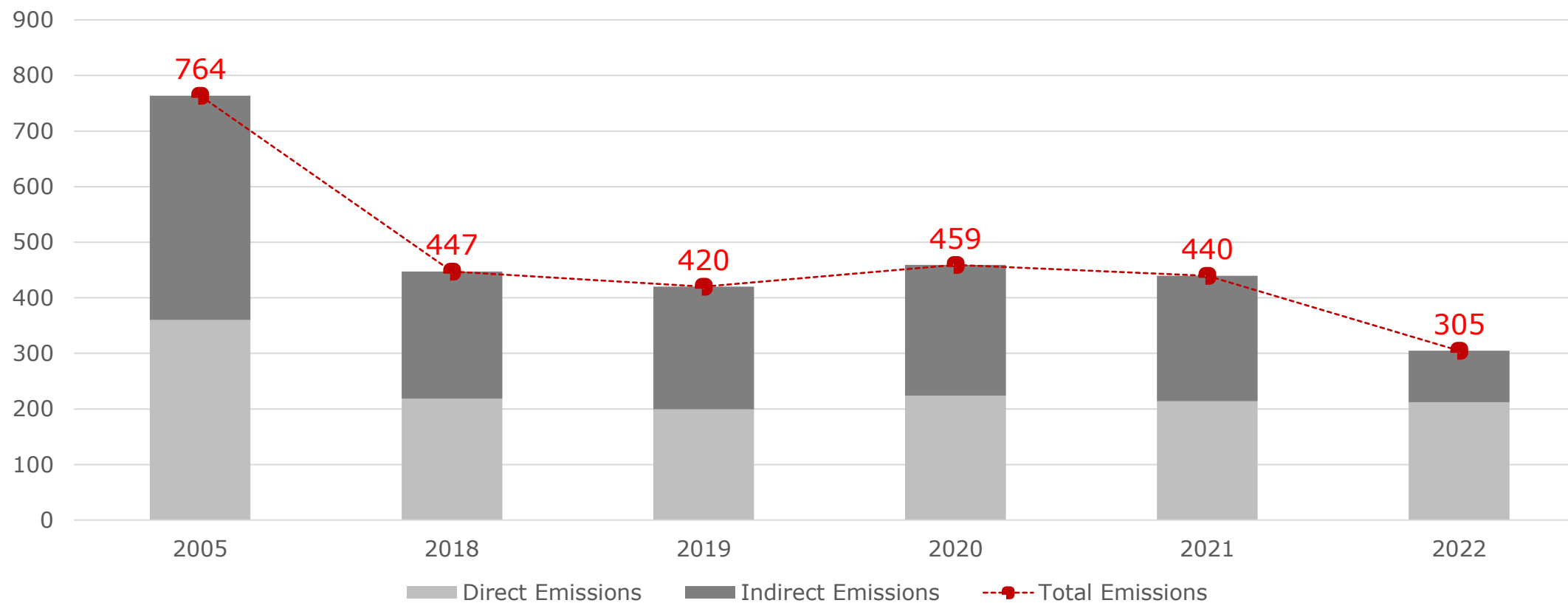
2005-2020
40% reduction achieved in **emissions** since 2005 (KG CO₂/Tn).
From 764 KG CO₂/Tn to 459 KG CO₂/Tn

2025
55% reduction of emissions by 2025
From 764 KG CO₂/Tn to 344 KG CO₂/Tn

2030
60% reduction of emissions by 2030
From 764 KG CO₂/Tn to 306 KG CO₂/Tn

2050
Carbon neutral

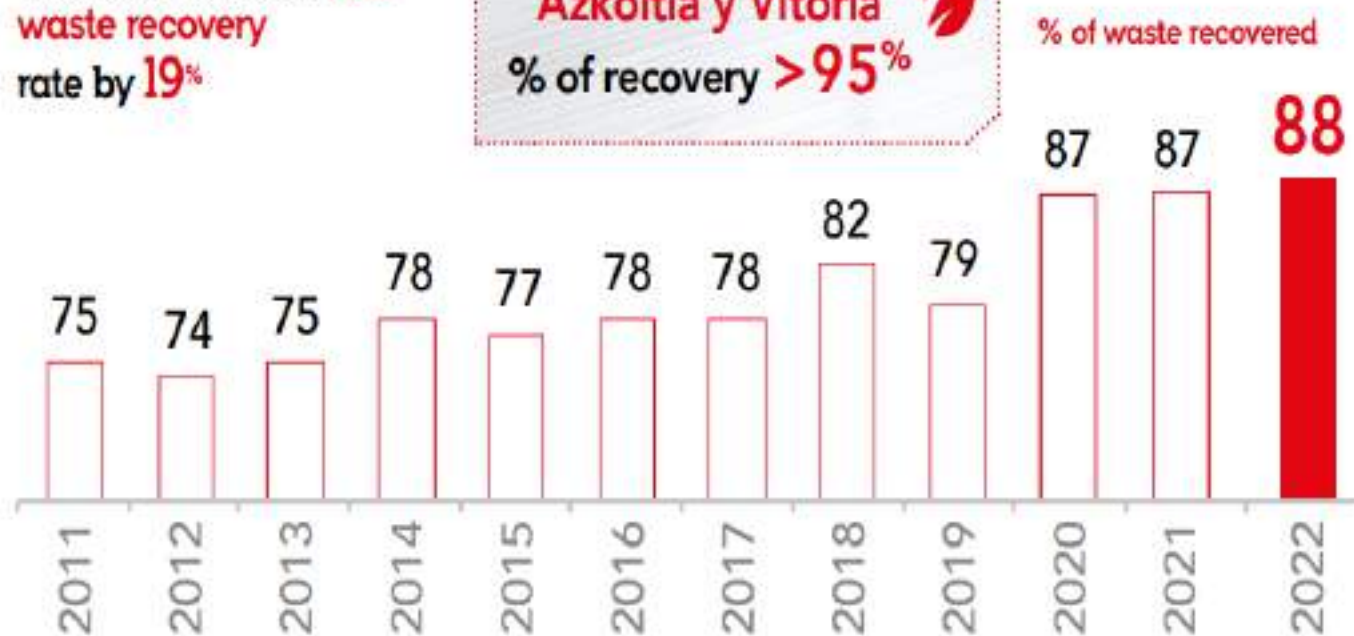
CO₂ generation per ton of Steel (kgCO₂/t equiv)



Strong commitment to circular economy

In the last decade, we have increased our waste recovery rate by **19%**

Azkoitia y Vitoria
% of recovery **>95%**



Objectives and challenges

90%
of our
waste
by 2025



95%
of our
waste
by 2030

Decarbonization Roadmap

2022

2025

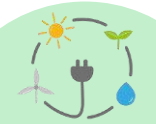
2030

2035

2040

2045

**Renewable
Energy for Green
steel**



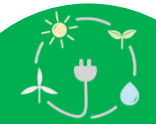
50%

From total
consumption



75%

From total
consumption



100%

From total
consumption

**Fuels
From natural gas to
green hydrogen**



10%

Of Green
hydrogen



30%

Of Green
hydrogen



60%

Of Green
hydrogen



100%

Of Green
hydrogen

**Replacement of
fossil coal**



5%

From total
fossil coal



30%

From total
fossil coal

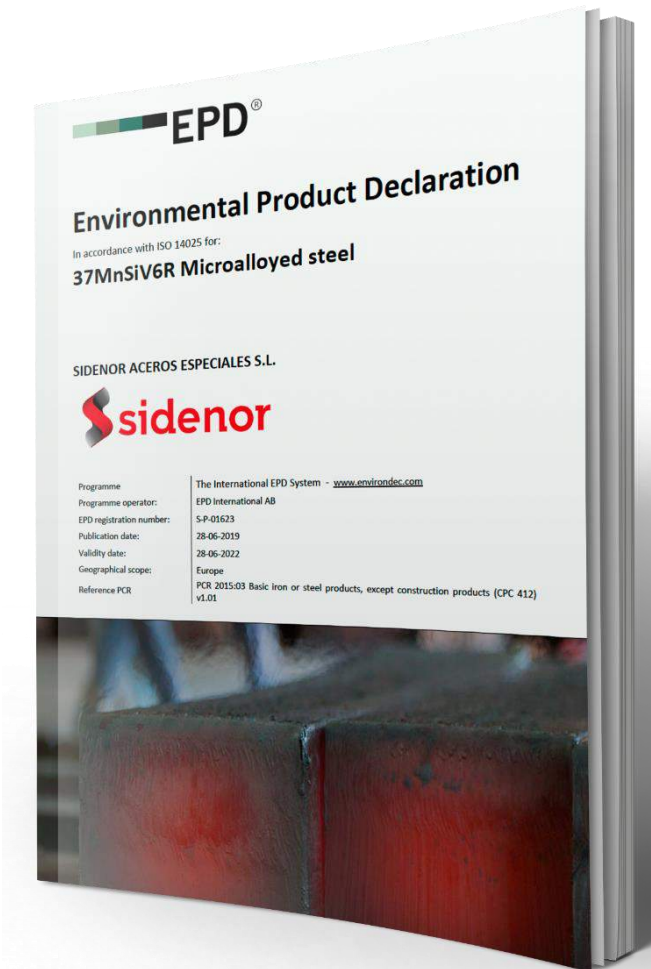
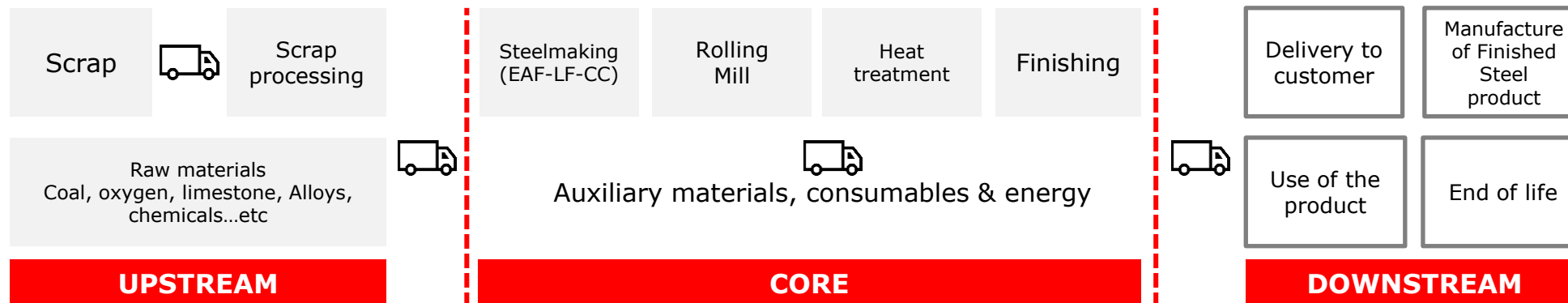


100%

From total
fossil coal

We are able to measure the environmental performance of each material, of each process stage, of each product, both **core and upstream**.

First company to certify EPD's calculation tool



Carbon footprint: 42CrMo4



42CrMo4 Induction Q&T Peeled Diam. 73 mm.

Sidenor stands up for a quantitative and objective environmental evaluation of their products based on the Life Cycle Assessment methodology, and for the transparency in environmental communication through Environmental Product Declarations (EPD).

Sidenor intends to use the EPD publication as a transparency tool for environmental communication.

Since 2016, Sidenor performs Life Cycle Assessment (LCA) studies for all their products following the standards ISO 14040 and ISO 14044.

Being B2B, Sidenor aimed at obtaining and verifying the EPDs for their special steel quality products. In order to develop these EPD documents and their subsequent verification, an LCA study has been performed under the name ISO 14021 and following the Product Category Rule "Basic steel or steel products & special steels, except construction products" from the International EPD system.

EPDs allow Sidenor to realize a quantitative environmental assessment procedure, to add a collection stage as well as during the evaluation of the environmental impacts through an LCA study development.

704
KgCO₂eq / t product

The carbon footprint (presence of Global Warming or GW) is an indicator that points to the contribution to the climate of the global average temperature derived from greenhouse gases emissions associated to the cycle of a product.

The calculation of this indicator has been performed with the method IPCC 2013. The results expressed in kg of CO₂ equivalent by tonne of product.



Product Reference: 202020

CORE		sidenor	
Product name	202020 42CrMo4		
Reference year	2021		
Unit produced	t		
Centre	3000	Fabrica	8414,01
Functional unit	Tn	System units	
BASELINE: TECH GARMS EPD			171,08 kgCO₂eq
Materials	Quantity	Unit	Footprint
Agua HD	0,00	kg	1,46E-05 kgCO ₂ eq
TRANSFORM - Agua fría	0,00	kg/m ³	0,00 kgCO ₂ eq
Agua fría	0,27	m ³	0,00 kgCO ₂ eq
TRANSFORM - Agua fría	0,00	kg/m ³	0,00 kgCO ₂ eq
PRODUCTOS (LABORACIÓN)	5,97	kg	6,50E-06 kgCO ₂ eq
TRANSFORM - PRODUCTOS (LABORACIÓN)	2,26	kg/m ³	1,75E-06 kgCO ₂ eq
Processes	Quantity	Unit	Footprint
DE BARRAS	28,00	VWh	1,33 kgCO ₂ eq
DE BARRAS Y BARRAS	31,41	VWh	1,36 kgCO ₂ eq
SA	640,90	VWh	184,81 kgCO ₂ eq
Waste	Quantity	Unit	Footprint
CASCARILLA	0,11	kg	0,00 kgCO ₂ eq
PRODUCTOS (LABORACIÓN)	0,00	kg	0,00E+00 kgCO ₂ eq
Total CORE			612,88 kgCO₂eq
ACEITE USADO	0,25	kg	0,02 kgCO ₂ eq
ARMARIOS ELÉCTRICOS Y ELECTRÓNICOS	1,19	kg	0,00 kgCO ₂ eq
COSTURAS DE PLÁSTICO HACIAS DE 300G	0,10	kg	0,00 kgCO ₂ eq
ENVASES DE PLÁSTICO QUE HAN CONTENIDO RP	1,00	kg	0,00 kgCO ₂ eq
ENVASES METÁLICOS QUE HAN CONTENIDO RP	1,00	kg	0,00 kgCO ₂ eq
GRASA CONSISTENTE	0,25	kg	2,05E-01 kgCO ₂ eq
LÍQUIDOS PEROXIDANTES ACIDOS	0,01	kg	0,00 kgCO ₂ eq
LÓDOS INDUSTRIALES (Bases de agua)	1,40	kg	6,50E-01 kgCO ₂ eq
LÓDOS INDUSTRIALES (Bases de agua) (CONTENEDOR)	0,01	kg	1,00E-01 kgCO ₂ eq
MADERA	0,00	kg	0,00 kgCO ₂ eq
MATERIALES IMPRESIONADOS CON RESIDUOS CÁLIDOS	0,05	kg	0,02 kgCO ₂ eq
RESIDUOS SÓLIDOS	0,12	kg	0,00 kgCO ₂ eq
TAPONES Y CARTONES	0,04	kg	0,00 kgCO ₂ eq
PLÁSTICO INDUSTRIAL	0,01	kg	0,00 kgCO ₂ eq
RESIDUOS SÓLIDOS TIPO 2 (LIX)	0,00	kg	0,02 kgCO ₂ eq
TUBOS FÉRREOS ATÍPICOS	0,05	kg	0,00 kgCO ₂ eq
TUBOS FÉRREOS, BARRAS Y BARRAS	1,84	kg	0,00 kgCO ₂ eq

1 Carbon Neutral (Core y Upstream)

2 100% renewable energy

3 Manufactured from 100% recycled or reclaimed scrap metal

