greenly

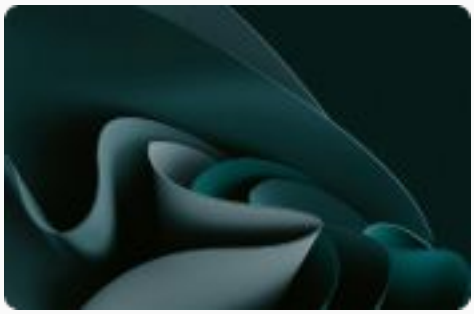
2026-03-12

Work With Island

Life Cycle Assessment

ACV Island Quattro

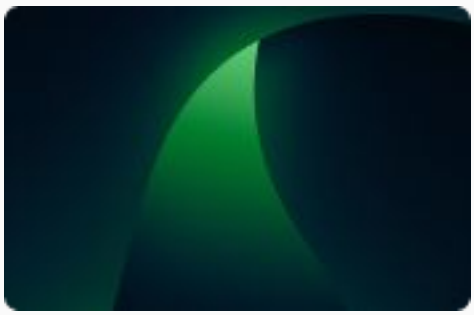
Summary



01 | Methodology



02 | Results



03 | Next Steps



01

Methodology

Environmental Impact Assessment

Functional unit	The functional unit is a quantified performance of a product system for use as a reference unit. One of the primary purposes of a functional unit is to provide a reference to which the input and output data are normalized (in a mathematical sense). Therefore, the functional unit shall be clearly defined and measurable. The functional unit of this analysis is “Mettre à disposition une cabine insonorisée pendant un an.”
Impact Indicator	The impact is measured through the "EF v3.1" method
Electricity impact calculation method	Following guidelines from the GHG Protocol, the impact of electricity is calculated using the location-based approach. This means that the emission factors used represent the average annual carbon intensity of the power grid in the country the processes take place in.
Hypothesis	Matières premières : Densité du bois aggloméré : 650 kg par m3 Densité du bois : 800 kg par m3 -- Transport et distribution : distances. IDF : 50 km, France : 500 km, Belgique : 310 km, Chypre : 3950 km, Allemagne : 600 km, Italie : 920 km, Luxembourg : 360 km, Pays-Bas : 490 km, Pologne : 1550 km, Portugal : 1700 km, Espagne : 1250 km, Suisse : 550 km, Royaume-Uni : 460 km. Moyenne : 700 km (pondération de toutes les livraisons depuis la France sur 2025) Moyenne France : km (pondération de toutes les livraisons France-France sur 2025) -- Utilisation : Durée d'utilisation de tous les appareils, hors détecteur de présence : 336h par an.

Environmental Impact Assessment

System Boundaries	Cette étude concerne uniquement les cabines assemblées en / expédiées depuis la France.
Exclusions	Matières premières : Les procédés de sérigraphie sur verre sont exclus du périmètre de l'étude (impact peu significatif). -- Fin de vie: - Exclusions de l'impact du démantèlement. - Exclusion de l'acheminent des déchets (uniquement les déchets verre, bois, textile) vers le centre de tri en fin de vie.

Emission Factor Inventory

Num	Emission Factor	Source	Value	Unit
1	Steel, low-alloyed | Market for steel, low-alloyed | Market activity	ECOINVENT 3.12	2.03	kg
2	Corrugated board box | Market for corrugated board box | Market activity	ECOINVENT 3.12	1.30	kg
3	Steel, unalloyed | Market for steel, unalloyed | Market activity	ECOINVENT 3.12	1.85	kg
4	Medium density fibreboard | Market for medium density fibreboard | Market activity	ECOINVENT 3.12	598.20	m3
5	Section bar extrusion, aluminium | Market for section bar extrusion, aluminium | Market activity	ECOINVENT 3.12	0.86	kg
6	Textile, nonwoven polypropylene | Market for textile, nonwoven polypropylene | Market activity	ECOINVENT 3.12	4.30	kg
7	Aluminium, primary, ingot | Aluminium production, primary, ingot | Ordinary transforming activity	ECOINVENT 3.12	20.66	kg
8	Plywood | Market for plywood | Market activity	ECOINVENT 3.12	411.16	m3
9	Urea formaldehyde resin | Market for urea formaldehyde resin | Market activity	ECOINVENT 3.12	1.46	kg
10	Waste wood, untreated | Market for waste wood, untreated | Market activity	ECOINVENT 3.12	0.05	kg
11	Energy (upstream emissions excluded)	OTHER 1.0	1.00	KGCO2E
12	Adhesive, for metal | Market for adhesive, for metal | Market activity	ECOINVENT 3.12	4.31	kg
13	Wood chips, dry, measured as dry mass | Market for wood chips, dry, measured as dry mass | Market activity	ECOINVENT 3.12	0.06	kg
14	Cable, connector for computer, without plugs | Market for cable, connector for computer, without plugs | Market activity	ECOINVENT 3.12	0.53	m
15	Electricity	OTHER 1.0	0.06	kWh
16	Power supply unit, for desktop computer | Market for power supply unit, for desktop computer | Market activity	ECOINVENT 3.12	34.87	UNIT

Emission Factor Inventory

Num	Emission Factor	Source	Value	Unit
17	Heavy fuel oil | Market for heavy fuel oil | Market activity	ECOINVENT 3.12	0.72	kg
18	Sheet rolling, steel | Sheet rolling, steel | Ordinary transforming activity	ECOINVENT 3.12	0.39	kg
19	Cleft timber, green, measured as dry mass | Hardwood forestry, beech, sustainable forest management | Ordinary transforming activity	ECOINVENT 3.12	0.04	kg
20	Polyurethane, flexible foam | Market for polyurethane, flexible foam | Market activity	ECOINVENT 3.12	4.69	kg
21	Plug, inlet and outlet, for computer cable | Market for plug, inlet and outlet, for computer cable | Market activity	ECOINVENT 3.12	0.40	UNIT
22	Fibre, polyester | Market for fibre, polyester | Market activity	ECOINVENT 3.12	4.92	kg
23	Polyurethane, flexible foam | Market for polyurethane, flexible foam | Market activity	ECOINVENT 3.12	6.14	kg
24	Synthetic rubber | Market for synthetic rubber | Market activity	ECOINVENT 3.12	3.18	kg
25	Production of recycled cotton yarn | treatment of post-industrial waste	BASE EMPREINTE ADEME 3.0	1.40	kg
26	Polyethylene, high density, granulate | Market for polyethylene, high density, granulate | Market activity	ECOINVENT 3.12	3.18	kg
27	Finishing, textile, woven cotton | Finishing, textile, woven cotton | Ordinary transforming activity	ECOINVENT 3.12	0.64	kg
28	Printed paper | Market for printed paper | Market activity	ECOINVENT 3.12	2.54	kg
29	Fan, for power supply unit, desktop computer | Market for fan, for power supply unit, desktop computer | Market activity	ECOINVENT 3.12	14.98	kg
30	Medium density fibreboard | Market for medium density fibreboard | Market activity	ECOINVENT 3.12	598.20	m3
31	Light emitting diode | Market for light emitting diode | Market activity	ECOINVENT 3.12	250.58	kg
32	Permanent magnet, for electric motor | Market for permanent magnet, for electric motor | Market activity	ECOINVENT 3.12	31.57	kg

Emission Factor Inventory

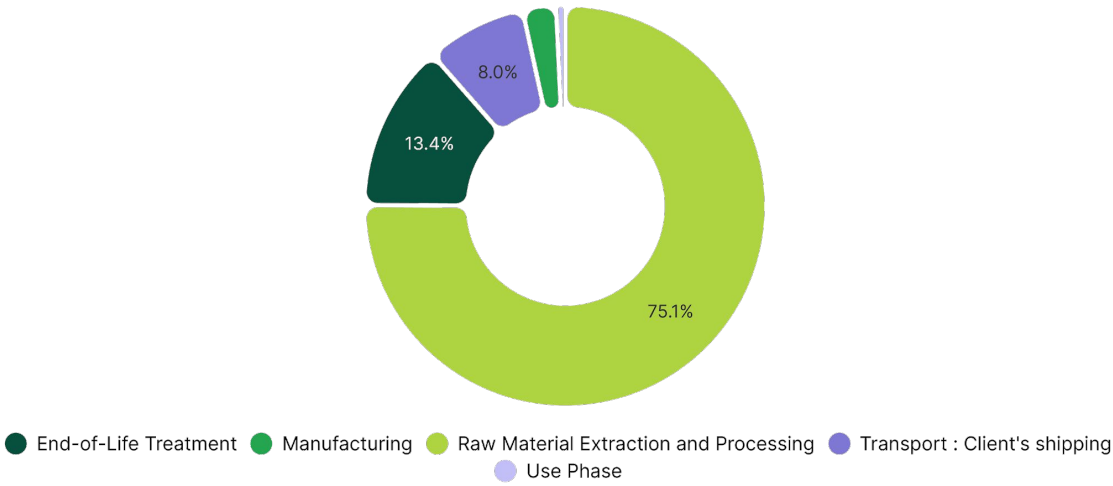
Num	Emission Factor	Source	Value	Unit
33	Presence detectors | 360 ° detector motion | Production	INIES 2022	4.07	UNIT
34	Tempering, flat glass | Market for tempering, flat glass | Market activity	ECOINVENT 3.12	0.18	kg
35	Waste wood, untreated | Market for waste wood, untreated | Market activity	ECOINVENT 3.12	0.08	kg
36	Polypropylene, granulate | Market for polypropylene, granulate | Market activity	ECOINVENT 3.12	2.34	kg
37	Lubricating oil | Market for lubricating oil | Market activity	ECOINVENT 3.12	1.72	kg
38	Rigide | 20 to 26 tonnes | Diesel Road | Incorporation 7 % of biodiesel	BASE EMPREINTE ADEME 23.9	0.14	TON_KM
39	Waste electric and electronic equipment | Market for waste electric and electronic equipment | Market activity	ECOINVENT 3.12	0.05	kg
40	Waste steel | Market for waste steel | Market activity	ECOINVENT 3.12	0.02	kg
41	Wood chips, from post-consumer wood, dry, measured as dry mass | Market for wood chips, from post-consumer wood, dry, measured as dry mass | Market activity	ECOINVENT 3.12	0.03	kg
42	Waste glass sheet | Treatment of waste glass sheet, sorting plant | Ordinary transforming activity	ECOINVENT 3.12	0.01	kg
43	Municipal solid waste | Market for municipal solid waste | Market activity	ECOINVENT 3.12	0.51	kg
44	Waste textile, soiled | Treatment of waste textile, soiled, municipal incineration FAE | Ordinary transforming activity	ECOINVENT 3.12	0.72	kg

02

Results

ACV Island Quattro

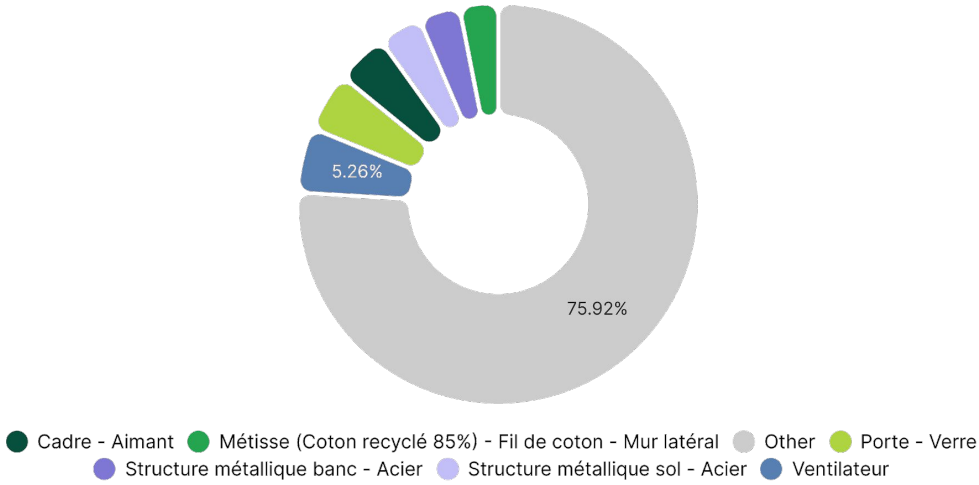
Climate Change



Step	Impact (kg CO_2 eq)	Percentage (%)
Raw Material Extraction and Processing	318.75	75.09 %
End-of-Life Treatment	57.05	13.44 %
Transport : Client's shipping	34.12	8.04 %
Manufacturing	11.43	2.69 %
Use Phase	3.14	0.74 %
TOTAL	**424.49**	**100.00 %**

ACV Island Quattro

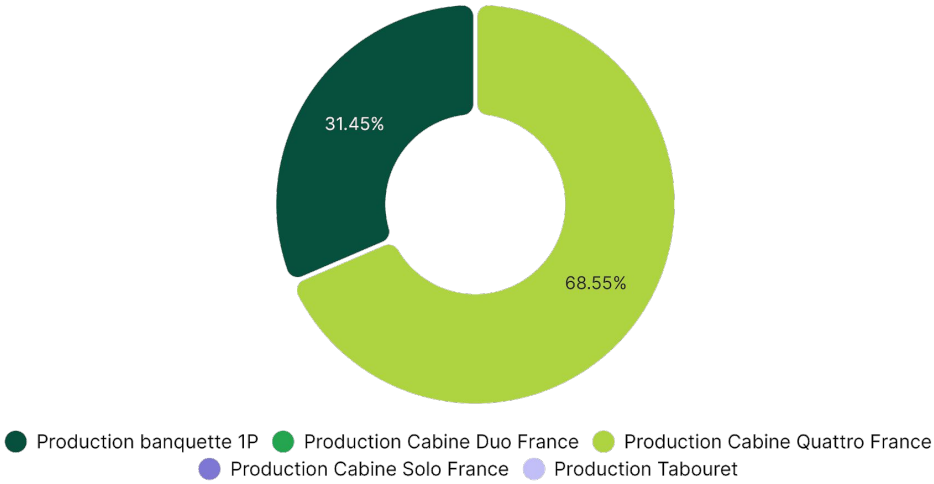
Climate Change - Raw Material Extraction and Processing



Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO_2 eq)	Percentage (%)
Ventilateur	29	1.12	kg	16.78	5.26 %
Porte - Verre	34	84.83	kg	15.11	4.74 %
Cadre - Aimant	32	0.42	kg	13.26	4.16 %
Structure métallique sol - Acier	3	6	kg	11.12	3.49 %
Structure métallique banc - Acier	3	5.7	kg	10.56	3.31 %
Métisse (Coton recyclé 85%) - Fil de coton - Mur latéral	25	7.09	kg	9.95	3.12 %
Others				241.98	75.92 %
TOTAL				318.75	100.00 %

ACV Island Quattro

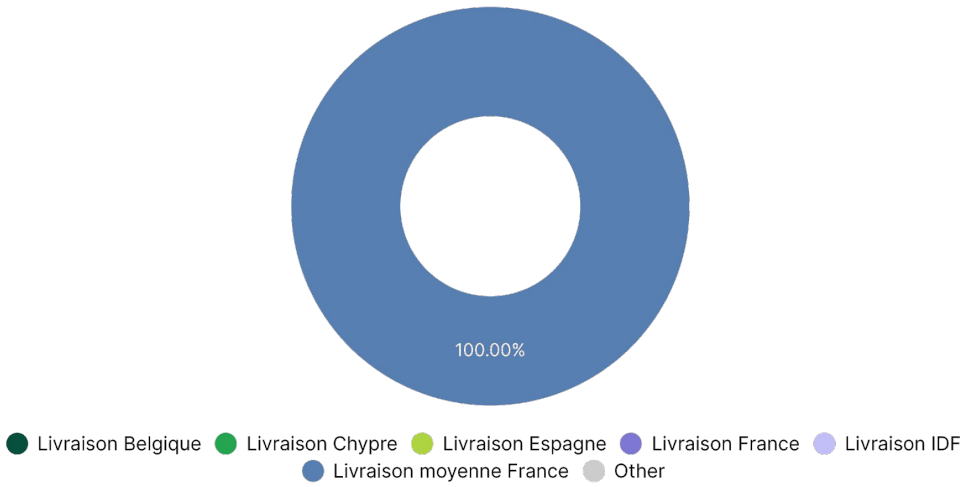
Climate Change - Manufacturing



Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO_2 eq)	Percentage (%)
Production Cabine Quattro France	15	130.8	kWh	7.83	68.55 %
Production banquette 1P	15	60	kWh	3.59	31.45 %
TOTAL				11.43	100.00 %

ACV Island Quattro

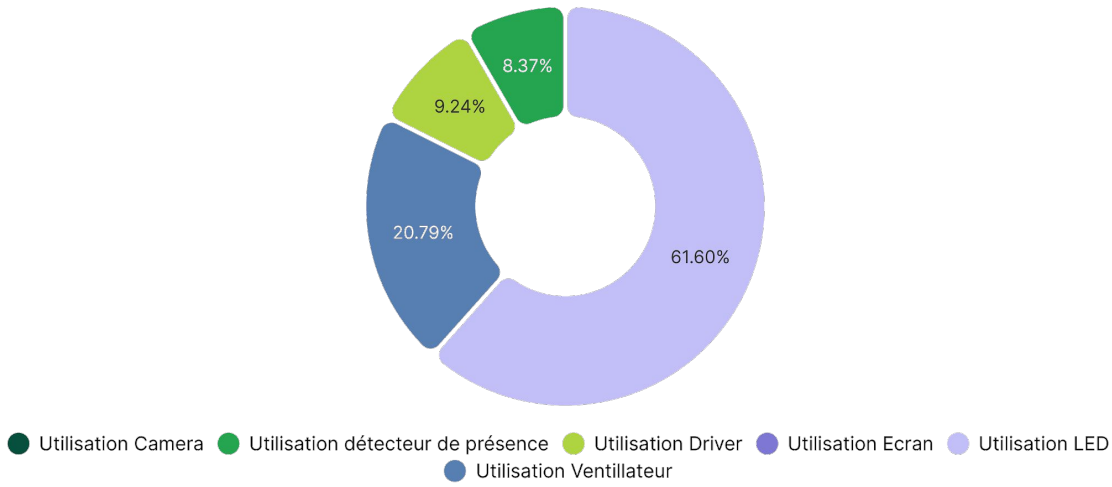
Climate Change - Transport : Client's shipping



Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO_2 eq)	Percentage (%)
Livraison moyenne France	38	238.62	TON_KM	34.12	100.00 %
TOTAL				34.12	100.00 %

ACV Island Quattro

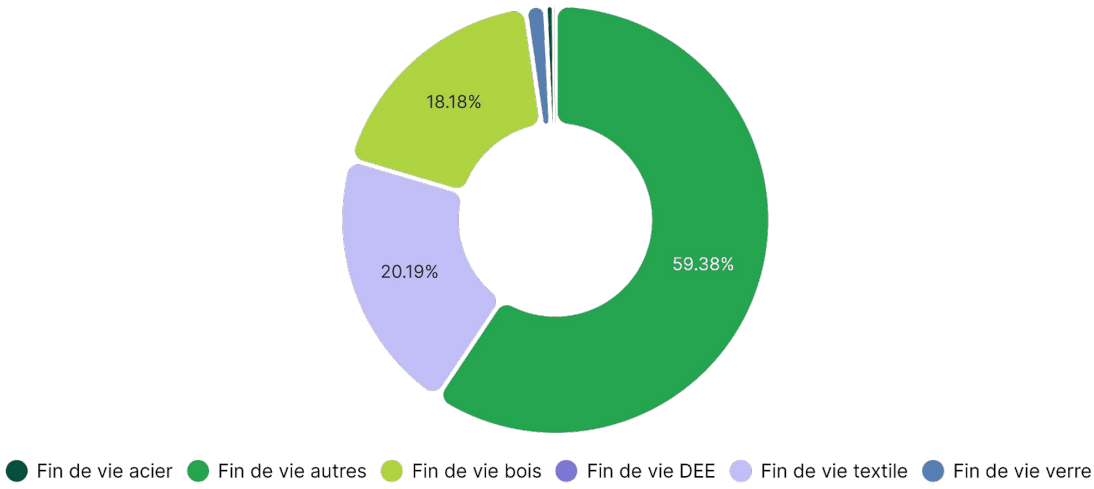
Climate Change - Use Phase



Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO_2 eq)	Percentage (%)
Utilisation LED	15	32.26	kWh	1.93	61.60 %
Utilisation Ventillateur	15	10.89	kWh	0.65	20.79 %
Utilisation Driver	15	4.84	kWh	0.29	9.24 %
Utilisation détecteur de présence	15	4.38	kWh	0.26	8.37 %
TOTAL				3.14	100.00 %

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Climate Change - End-of-Life Treatment



Activity	Emission Factor Num	Quantity	Unit	Impact (kg CO_2 eq)	Percentage (%)
Fin de vie autres	43	66.18	kg	33.88	59.38 %
Fin de vie textile	44	15.9	kg	11.52	20.19 %
Fin de vie bois	41	368.22	kg	10.37	18.18 %
Fin de vie verre	42	84.83	kg	0.86	1.50 %
Fin de vie acier	40	20.74	kg	0.37	0.65 %
Fin de vie DEE	39	1.13	kg	0.06	0.10 %
TOTAL				57.05	100.00 %

03

Next steps

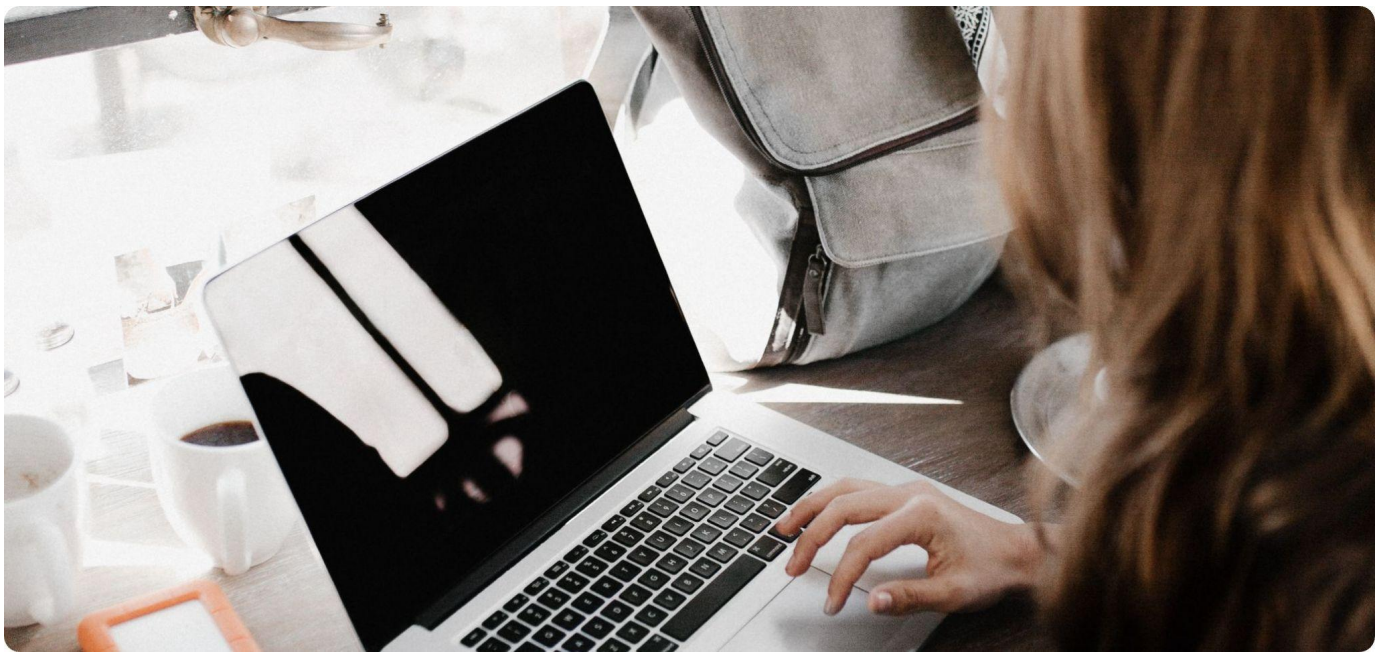
Net Zero Strategy

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Climate strategy pillars

In 2015, 193 countries committed to limiting global warming to 1.5°C.
To achieve this, companies should follow these **5 pillars** of the Net Zero Initiative:

1 MEASURE	2 REDUCE	3 EDUCATE	4 COMMIT	5 CONTRIBUTE
Track emissions annually	Choose an action plan in line with the Paris Agreement	Engage suppliers in the strategy	Commit to an objective	Contribute in carbon sequestration & avoidance projects to cover non compressive emissions
Go deeper in the analysis of the main emission sources	Quantify the action plan to build a carbon trajectory	Train all employees	Communicate transparently	



Evaluate the climate engagement of suppliers

SPECIFIC QUESTIONNAIRES PER ACTIVITY SECTOR

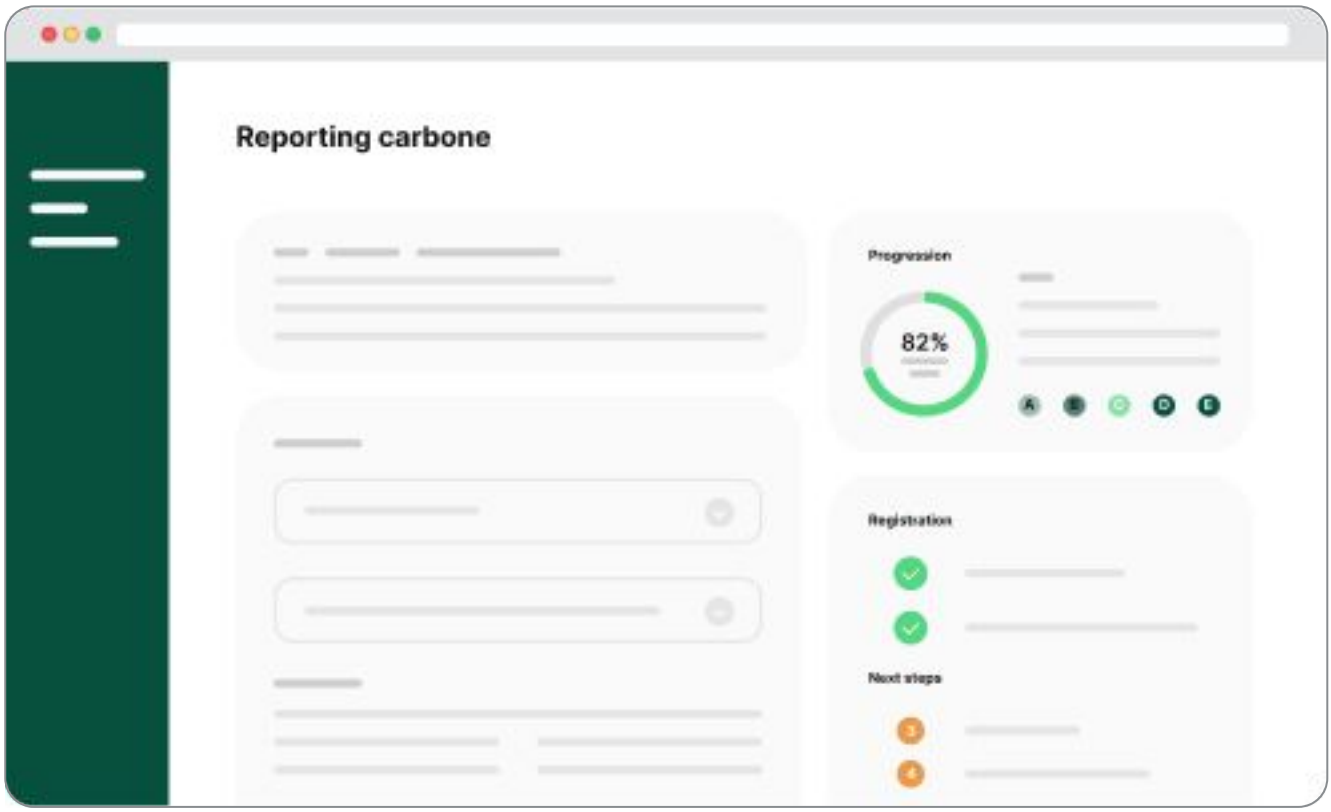
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PROOF OF A CLIMATE COMMITMENT

Commitment to carry out an assessment within the year to SBTi reduction targets.

CARBON ACCOUNTING SOLUTION FOR SMBS

Our full service available at a price range of 950 - 5000 EUR.



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