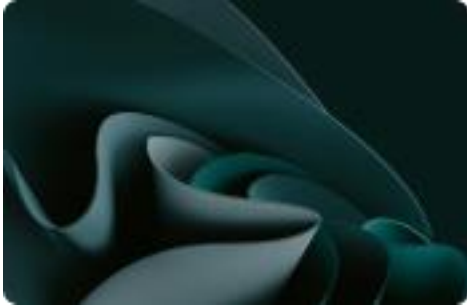


Life Cycle Analyses

RDVDISPLAY



Summary



01 | Methodology



02 | Results

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.

Impact Indicator

The impact is measured through the "IPCC 2021 GWP100" 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.

Life Cycle Analyses

Cradle to grave

Emission Factor Inventory

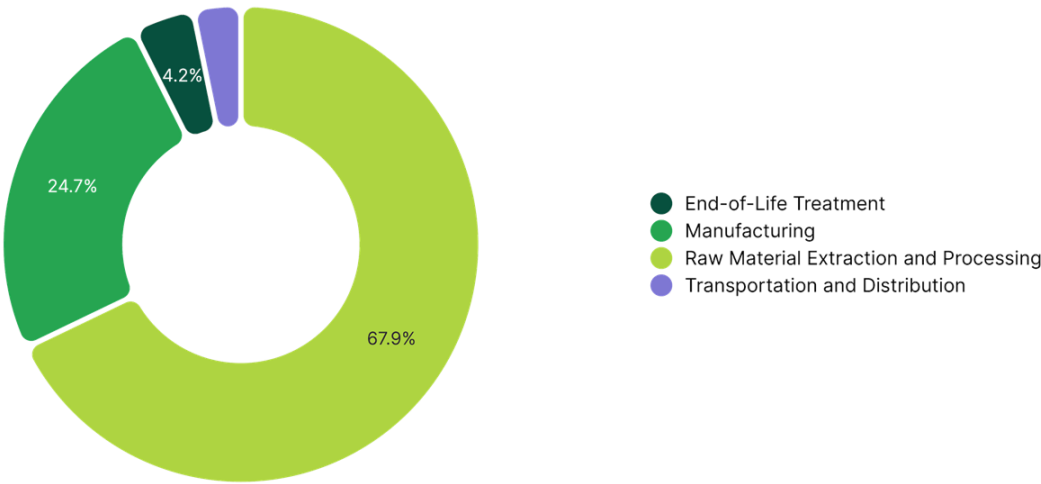
Num	Emission Factor	Source	Value	Unit
1	Aluminium, primary, ingot Ordinary transforming activity	ECOINVENT 3.10	7.61	kg
2	Acrylonitrile–butadiene–styrene copolymer Ordinary transforming activity	ECOINVENT 3.10	4.53	kg
3	Electricity Total (Scope 2 & 3) People's Republic of China	IEA 2023	0.72	kWh
4	Freight Boat From CN to FR	WELOW EXPERTS 1.0	0.25	kg
5	Waste aluminium Ordinary transforming activity	ECOINVENT 3.10	0.03	kg
6	Residues, MSWI, waste plastic, consumer electronics Ordinary transforming activity	ECOINVENT 3.10	0.36	kg

02

Results

Coffee accessories

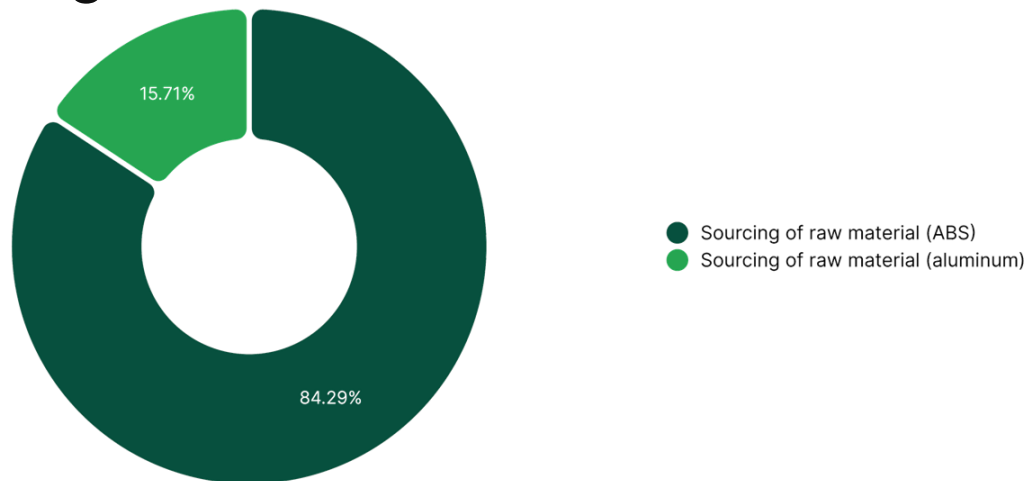
Climate Change



Step	Impact (kg CO ₂ eq)	Percentage (%)
Raw Material Extraction and Processing	1.45	67.88 %
Manufacturing	0.53	24.72 %
End-of-Life Treatment	0.09	4.19 %
Transportation and Distribution	0.07	3.22 %
TOTAL	2.14	100.00 %

Coffee accessories

Climate Change - Raw Material Extraction and Processing



Activity	Emission Factor Num	Quantity	Unité	Impact (kg CO ₂ eq)	Percentage (%)
Sourcing of raw material (ABS)	2	0.27	kg	1.23	84.29 %
Sourcing of raw material (aluminum)	1	0.03	kg	0.23	15.71 %

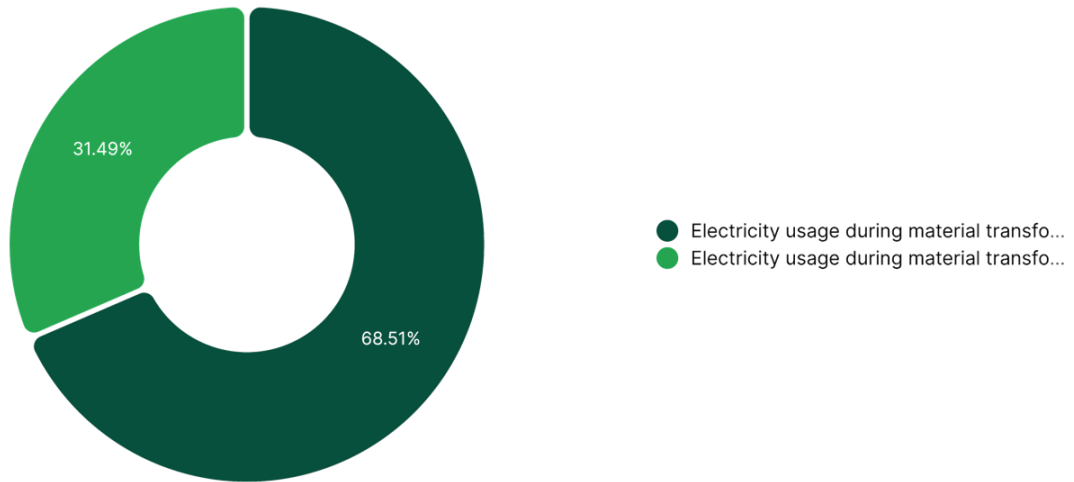
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TOTAL				1.45	100.00 %
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Coffee accessories

Climate Change - Manufacturing



Activity	Emission Factor Num	Quantity	Unité	Impact (g CO ₂ eq)	Percentage (%)
Electricity usage during material transformation (ABS)	3	0.5	kWh	362.73	68.51 %
Electricity usage during material transformation (aluminum)	3	0.23	kWh	166.7	31.49 %

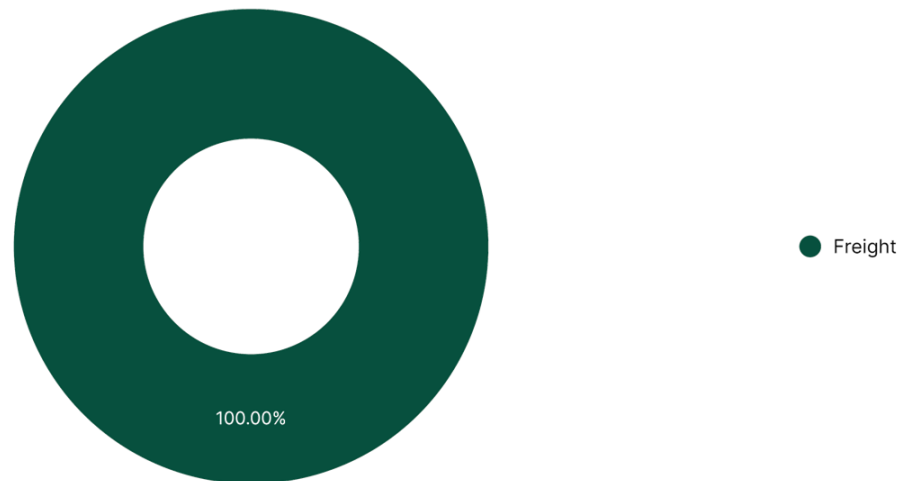
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TOTAL				529.43	100.00 %
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Coffee accessories

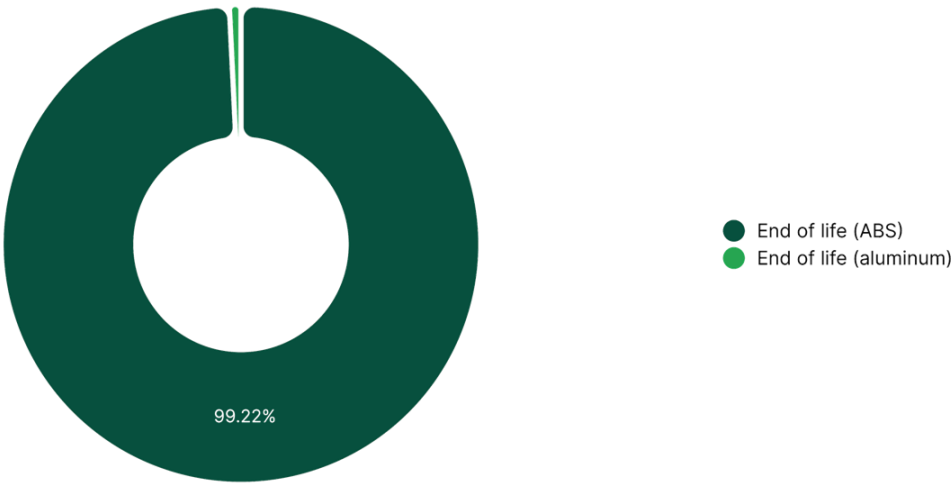
Climate Change - Transportation and Distribution



Activity	Emission Factor Num	Quantity	Unité	Impact (g CO ₂ eq)	Percentage (%)
Freight	4	0.27	kg	68.87	100.00 %
TOTAL				68.87	100.00 %

Coffee accessories

Climate Change - End-of-Life Treatment



Activity	Emission Factor Num	Quantity	Unité	Impact (g CO ₂ eq)	Percentage (%)
End of life (ABS)	6	0.25	kg	88.95	99.22 %
End of life (aluminum)	5	0.03	kg	0.7	0.78 %

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TOTAL				89.65	100.00 %
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