

greenly

2025-09-13

Lyreco LCA

Life Cycle Assessment

The methodology in this report is based on ISO 14040

14.064.573 (sold in FR)

Summary



01 | Methodology



02 | Results

01

Methodology

Environmental Impact Assessment

<p>Functional unit</p>	<p>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). The functional unit of this analysis is "1 pair(s) of pants used and washed 23 times [Ecobalyse]".</p>
<p>Impact Indicator</p>	<p>The impact is measured through the "IPCC 2013 GWP 100a" method.</p>
<p>Electricity impact calculation method</p>	<p>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.</p>
<p>Hypothesis</p>	<p>The Product's material composition is supplemented, if necessary, by secondary information as shown in the list below.</p> <ul style="list-style-type: none"> - Cotton 100% <p>Manufacturing Processes and associated loss percentages are assumed based on materials in the product.</p> <p>The electricity is based on the average in the country of manufacturing.</p> <p>Transportation is based on the common routes between the country of manufacturing and the country of sale.</p> <p>No replacements during the lifetime, therefore there are no emissions corresponding to the usage phase of the clipboard.</p> <p>The End of Life is based on the average waste management process of the materials in the product.</p>

Environmental Impact Assessment

System Boundaries

The scope of this research includes the complete lifecycle of a pair of pants from raw material extraction to disposal options for each material, which is the cradle-to-grave perspective.

Exclusions

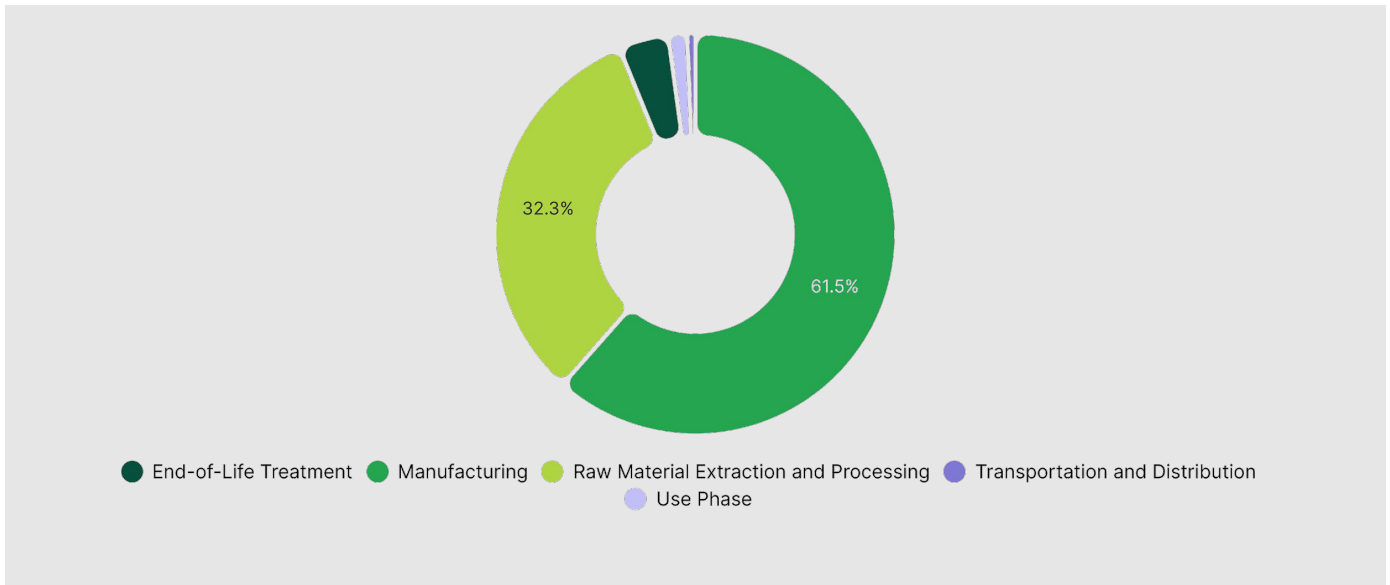
The impact of secondary packaging is excluded from this assessment.

02

Results

14.064.573 (sold in FR)

Climate Change



Step	Impact (kg CO ₂ eq)	Percentage (%)
Manufacturing	8.74	61.52 %
Raw Material Extraction and Processing	4.59	32.30 %
End-of-Life Treatment	0.57	4.02 %
Use Phase	0.21	1.49 %
Transportation and Distribution	0.1	0.67 %
TOTAL	14.21	100.00 %

14.064.573 (sold in FR)

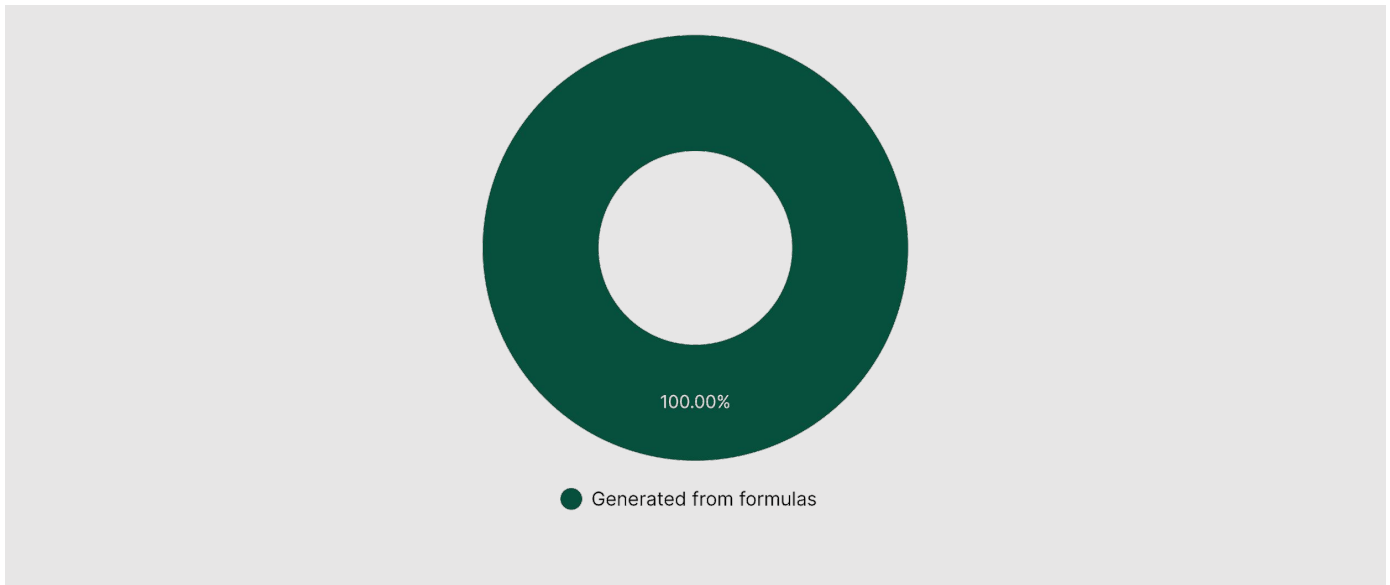
Climate Change - Raw Material Extraction and Processing



Activity	Emission Factor Num	Quantity	Impact (kg CO ₂ eq)	Percentage (%)
Generated from formulas	1	0.75	4.59	100.00 %
TOTAL			4.59	100.00 %

14.064.573 (sold in FR)

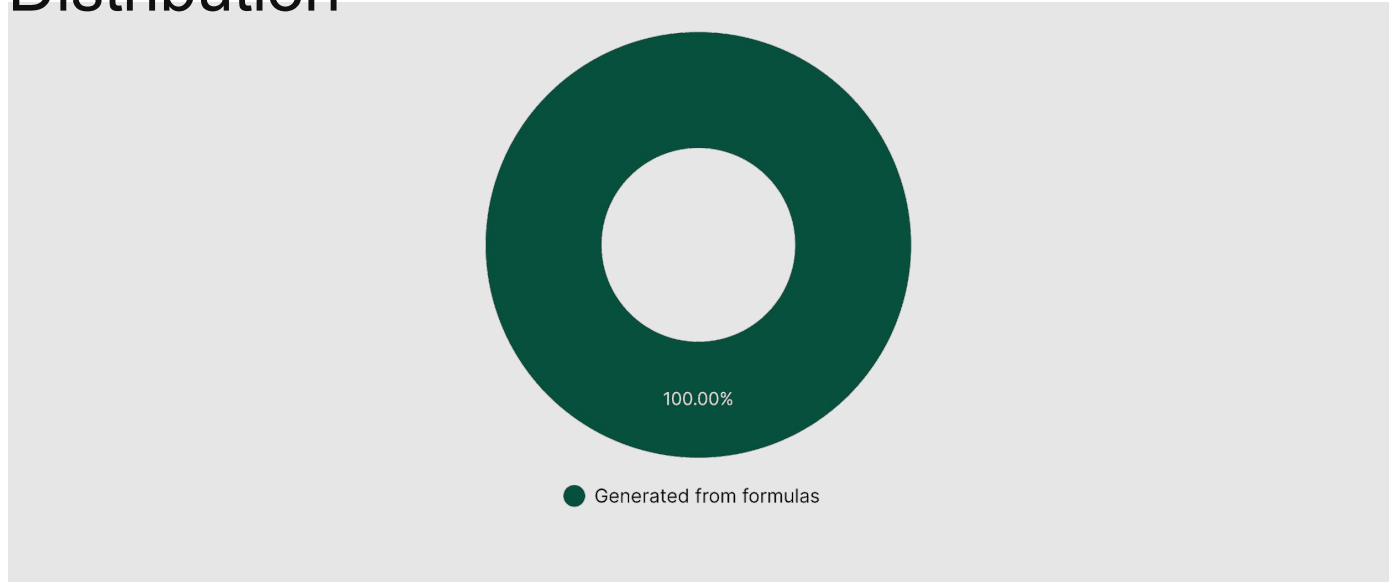
Climate Change - Manufacturing



Activity	Emission Factor Num	Quantity	Impact (kg CO ₂ eq)	Percentage (%)
Generated from formulas	4	23.49	8.74	100.00 %
TOTAL			8.74	100.00 %

14.064.573 (sold in FR)

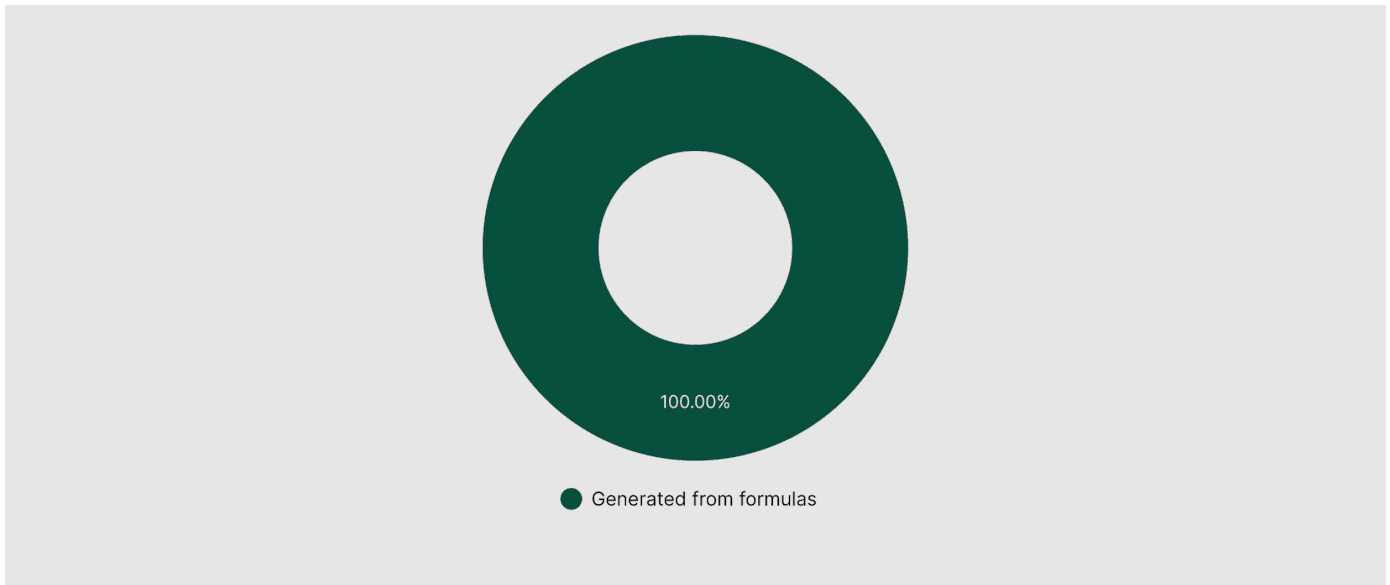
Climate Change - Transportation and Distribution



Activity	Emission Factor Num	Quantity	Impact (g CO ₂ eq)	Percentage (%)
Generated from formulas	7	0.58	95.39	100.00 %
TOTAL			95.39	100.00 %

14.064.573 (sold in FR)

Climate Change - End-of-Life Treatment



Activity	Emission Factor Num	Quantity	Impact (g CO ₂ eq)	Percentage (%)
Generated from formulas	9	0.58	571.33	100.00 %
TOTAL			571.33	100.00 %

Contact us

Alexis Normand CEO

www.greenly.earth