

greenly

2025-09-15

Lyreco LCA

Life Cycle Assessment

The methodology in this report is based on ISO 14040

12.004.686 (sold in PL)

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 "".</p>
<p>Impact Indicator</p>	<p>The impact is measured through the "" 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>	

Environmental Impact Assessment

System Boundaries

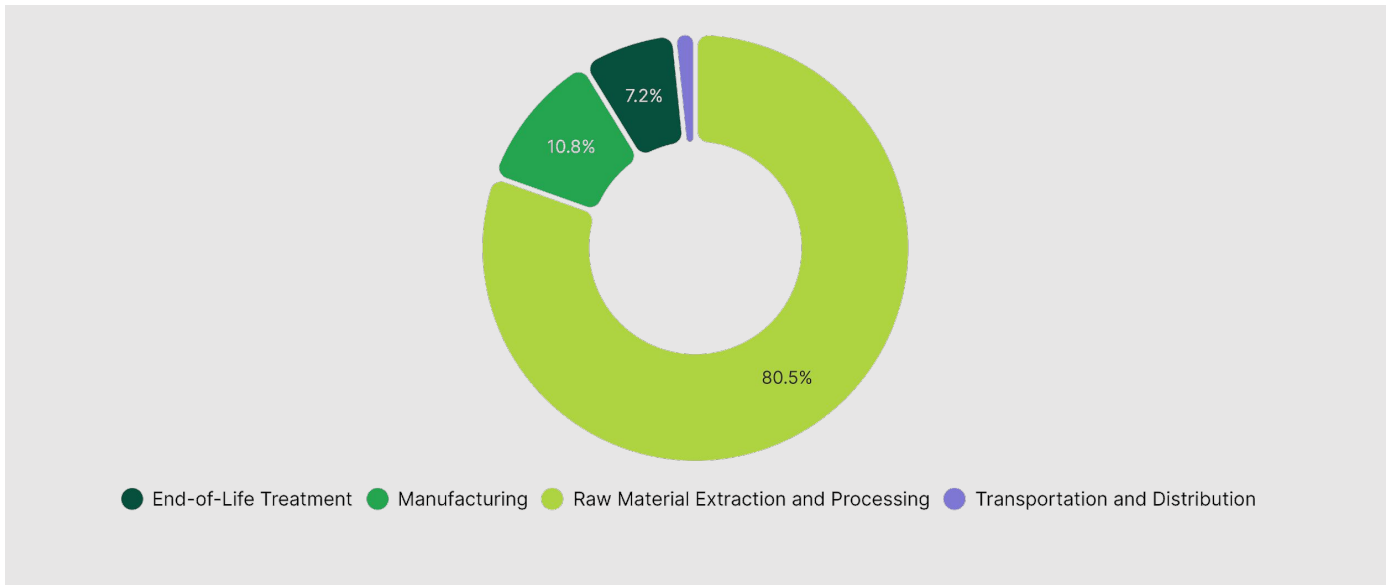
Exclusions

02

Results

12.004.686 (sold in PL)

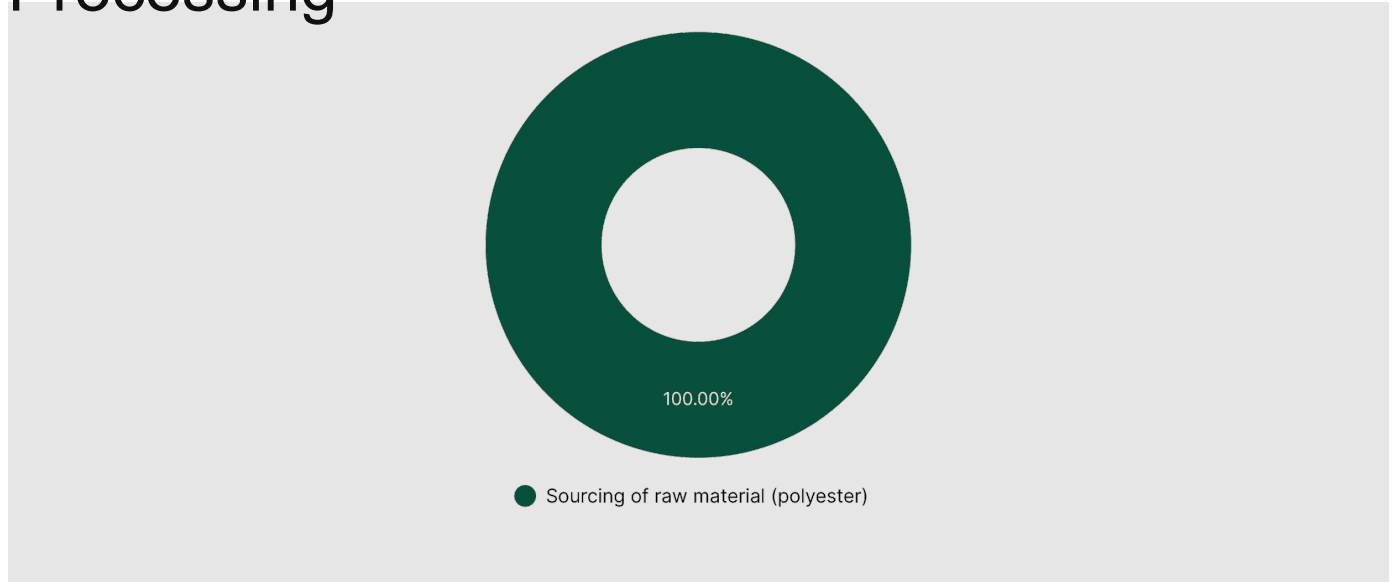
Climate Change



Step	Impact (kg CO ₂ eq)	Percentage (%)
Raw Material Extraction and Processing	2.73	80.45 %
Manufacturing	0.37	10.77 %
End-of-Life Treatment	0.24	7.18 %
Transportation and Distribution	0.05	1.60 %
TOTAL	3.39	100.00 %

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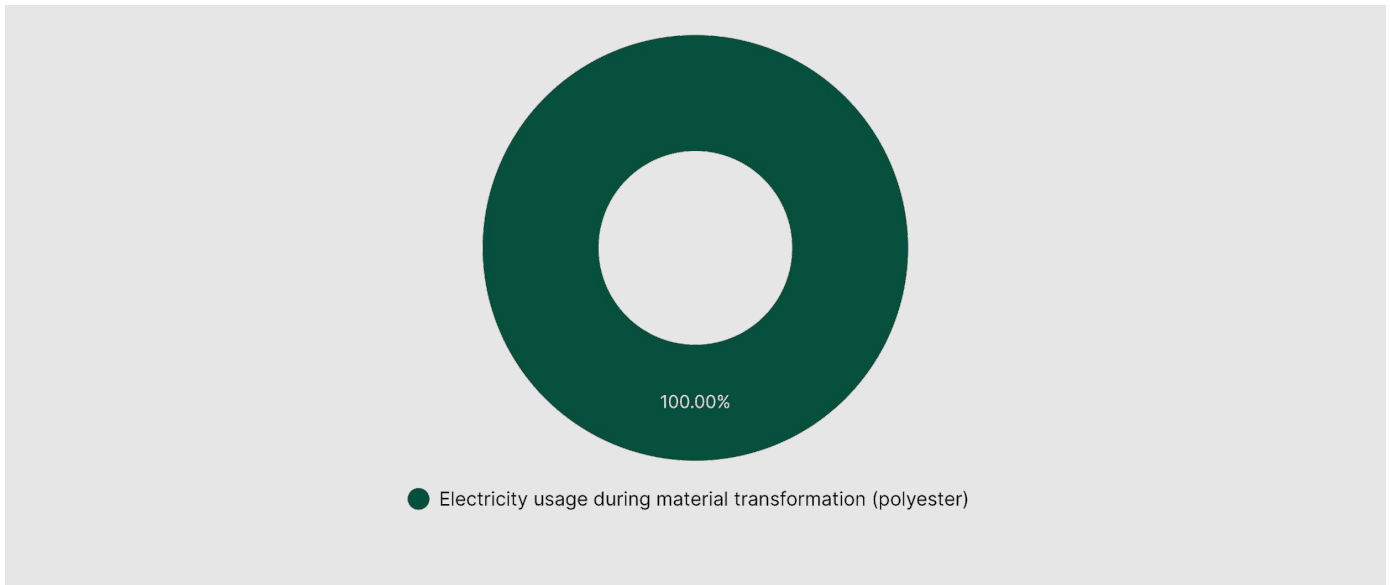
Climate Change - Raw Material Extraction and Processing



Activity	Emission Factor Num	Quantity	Impact (kg CO ₂ eq)	Percentage (%)
Sourcing of raw material (polyester)	1	0.27	2.73	100.00 %
TOTAL			2.73	100.00 %

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Climate Change - Manufacturing



Activity	Emission Factor Num	Quantity	Impact (g CO ₂ eq)	Percentage (%)
Electricity usage during material transformation (polyester)	2	0.51	365.39	100.00 %
TOTAL			365.39	100.00 %

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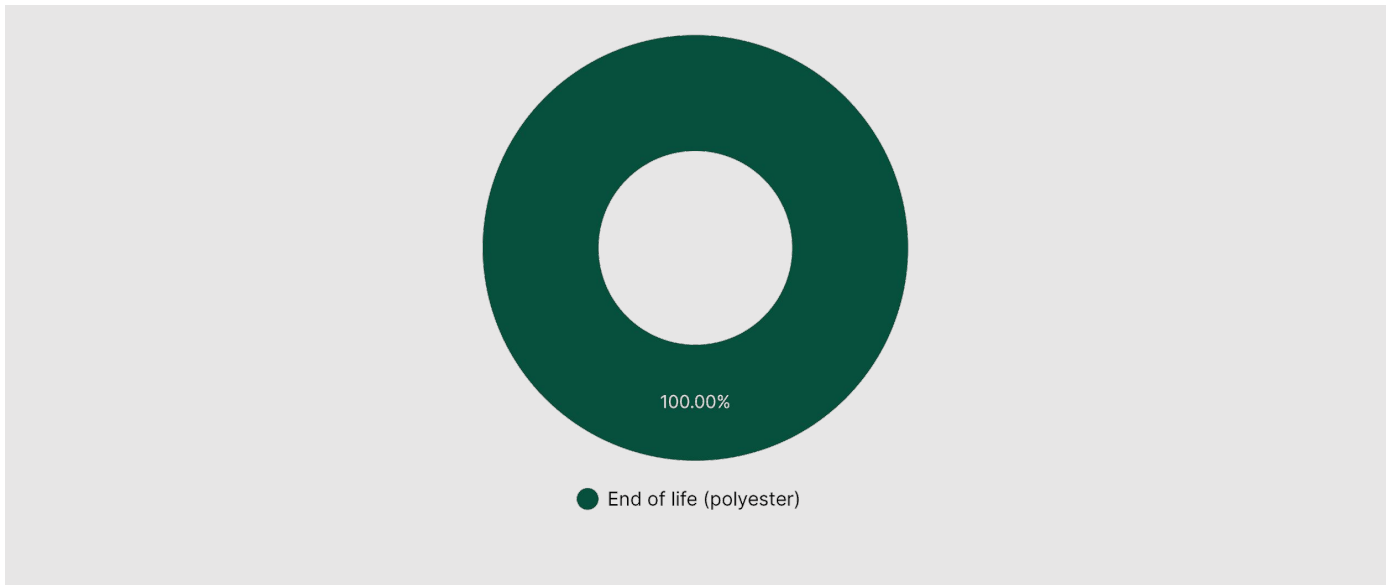
Climate Change - Transportation and Distribution



Activity	Emission Factor Num	Quantity	Impact (g CO ₂ eq)	Percentage (%)
Freight	3	0.25	54.22	100.00 %
TOTAL			54.22	100.00 %

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Climate Change - End-of-Life Treatment



Activity	Emission Factor Num	Quantity	Impact (g CO ₂ eq)	Percentage (%)
End of life (polyester)	4	0.25	243.81	100.00 %
TOTAL			243.81	100.00 %

Contact us

Alexis Normand CEO

www.greenly.earth