greenly

2025-09-15

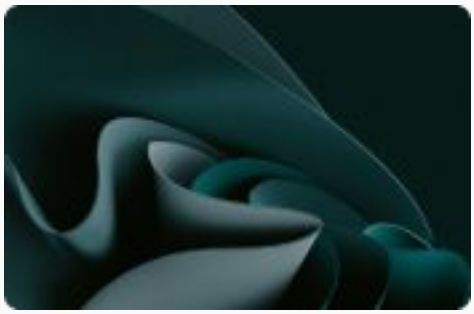
Lyreco LCA

Life Cycle Assessment

The methodology in this report is based on ISO 14040

12.004.697 (sold in SE)

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). The functional unit of this analysis is “”.
Impact Indicator	The impact is measured through the "" 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	

Environmental Impact Assessment

System Boundaries

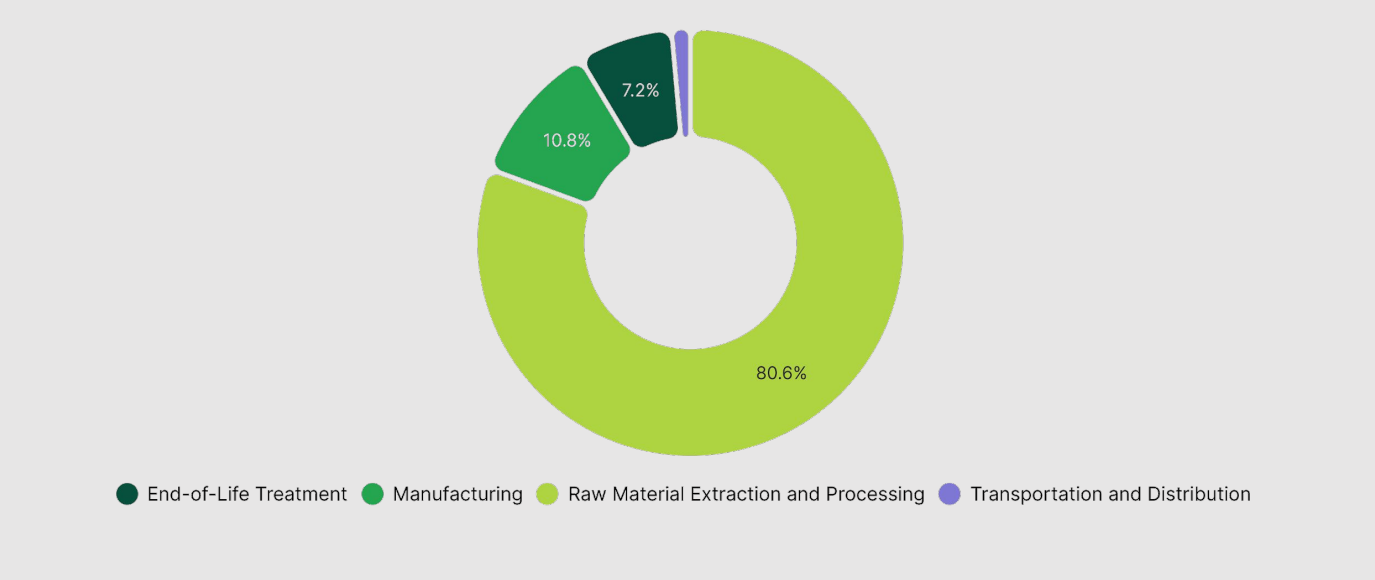
Exclusions

02

Results

12.004.697 (sold in SE)

Climate Change



Step	Impact (kg CO_2 eq)	Percentage (%)
Raw Material Extraction and Processing	2.87	80.61 %
Manufacturing	0.38	10.79 %
End-of-Life Treatment	0.26	7.20 %
Transportation and Distribution	0.05	1.41 %
TOTAL	3.56	100.00 %

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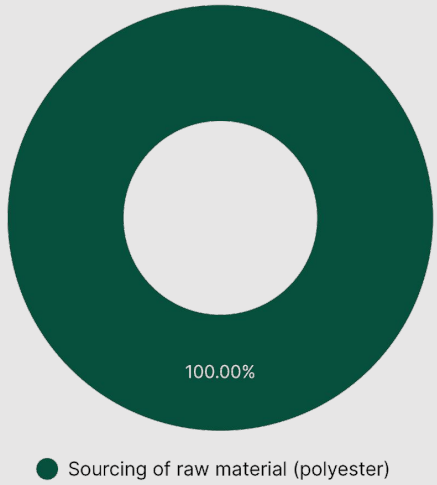
Climate Change - Raw Material Extraction and Processing



Activity	Emission Factor Num	Quantity	Impact (kg CO_2 eq)	Percentage (%)
Sourcing of raw material (polyester)	1	0.29	2.87	100.00 %
TOTAL			2.87	100.00 %

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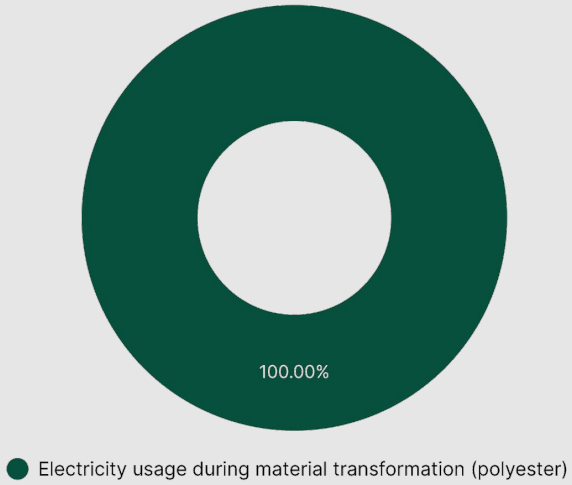
Climate Change - Manufacturing



Activity	Emission Factor Num	Quantity	Impact (g CO_2 eq)	Percentage (%)
Electricity usage during material transformation (polyester)	2	0.53	383.85	100.00 %
TOTAL			383.85	100.00 %

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Climate Change - Transportation and Distribution

Activity	Emission Factor Num	Quantity	Impact (g CO_2 eq)	Percentage (%)
Freight	3	0.26	50.01	100.00 %
TOTAL			50.01	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	0.26	256.12	100.00 %
TOTAL			256.12	100.00 %

Contact us

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