

**greenly**

2025-09-15

Lyreco LCA

# Life Cycle Assessment

*The methodology in this report is based on ISO 14040*

8.186.697 (sold in SE)

# Summary



**01** | Methodology



**02** | Results

# 01

## Methodology

# Environmental Impact Assessment

<p><b>Functional unit</b></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><b>Impact Indicator</b></p>	<p>The impact is measured through the "" method.</p>
<p><b>Electricity impact calculation method</b></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><b>Hypothesis</b></p>	

# Environmental Impact Assessment

**System Boundaries**

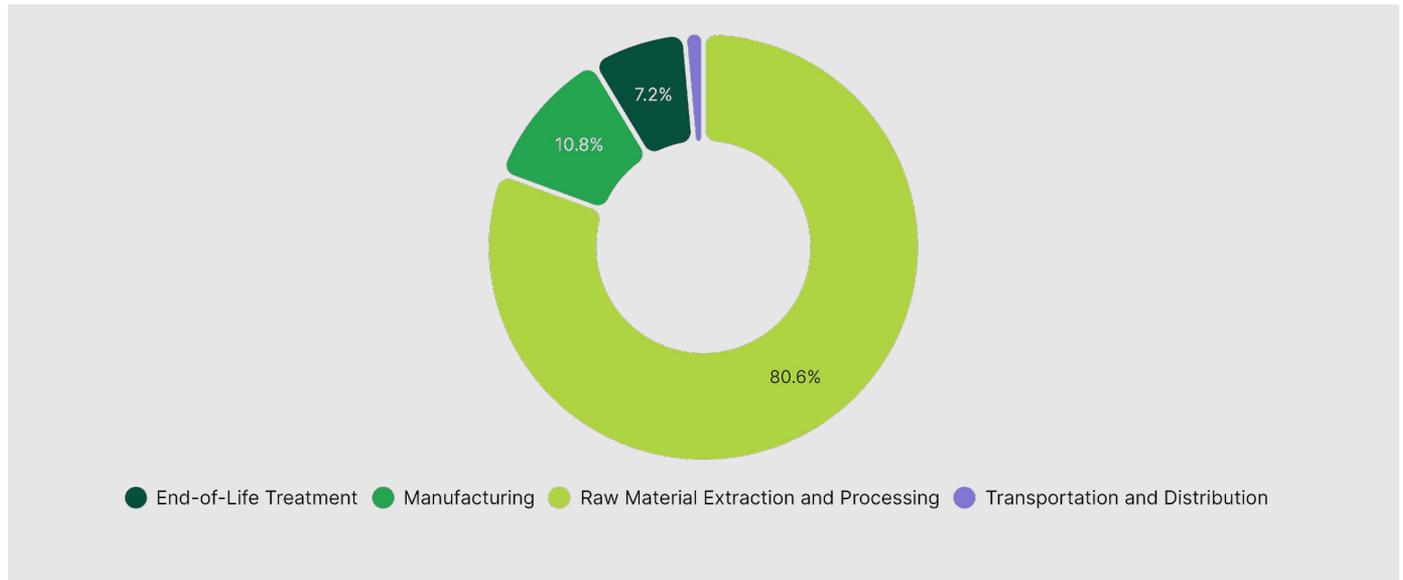
**Exclusions**

# 02

## Results

8.186.697 (sold in SE)

# Climate Change

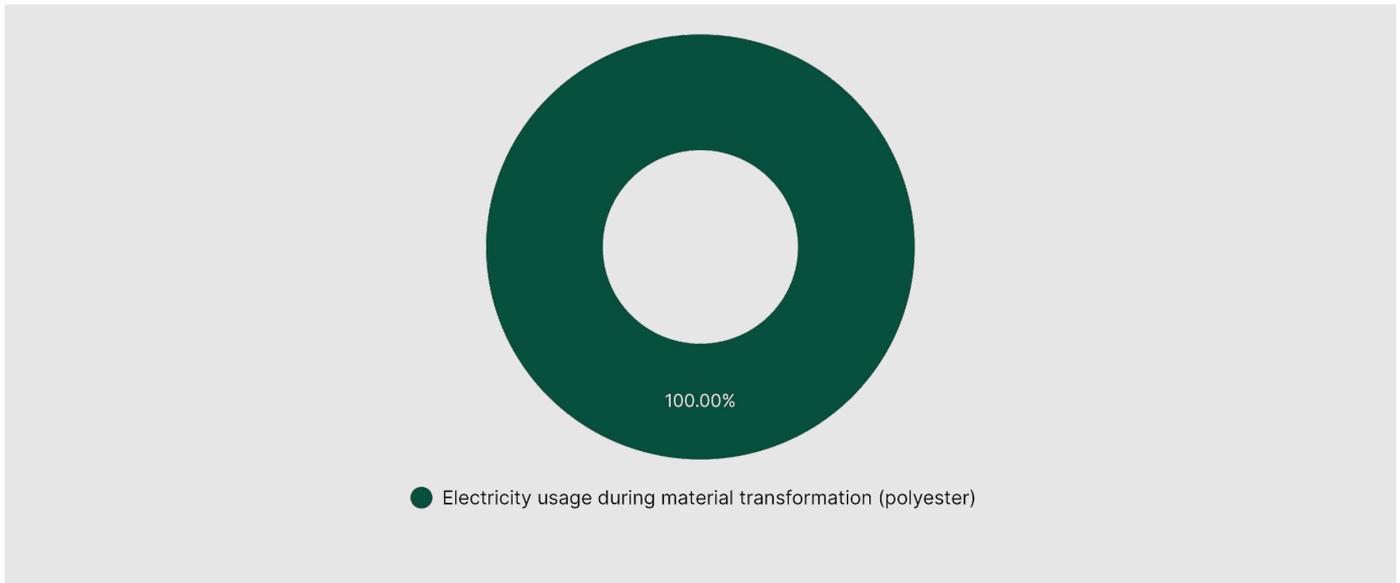


Step	Impact (kg CO <sub>2</sub> eq)	Percentage (%)
Raw Material Extraction and Processing	3.04	80.61 %
Manufacturing	0.41	10.79 %
End-of-Life Treatment	0.27	7.20 %
Transportation and Distribution	0.05	1.41 %
<b>TOTAL</b>	<b>3.78</b>	<b>100.00 %</b>



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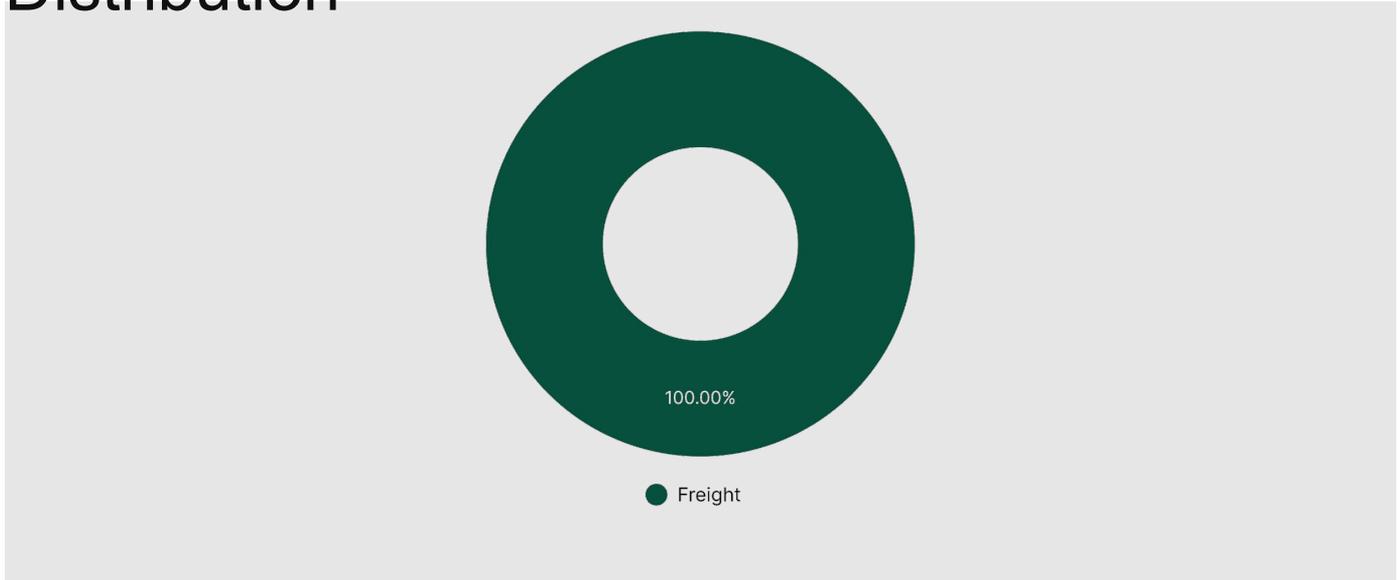
# Climate Change - Manufacturing



Activity	Emission Factor Num	Quantity	Impact (g CO <sub>2</sub> eq)	Percentage (%)
Electricity usage during material transformation (polyester)	2	0.56	407.47	100.00 %
TOTAL			407.47	100.00 %

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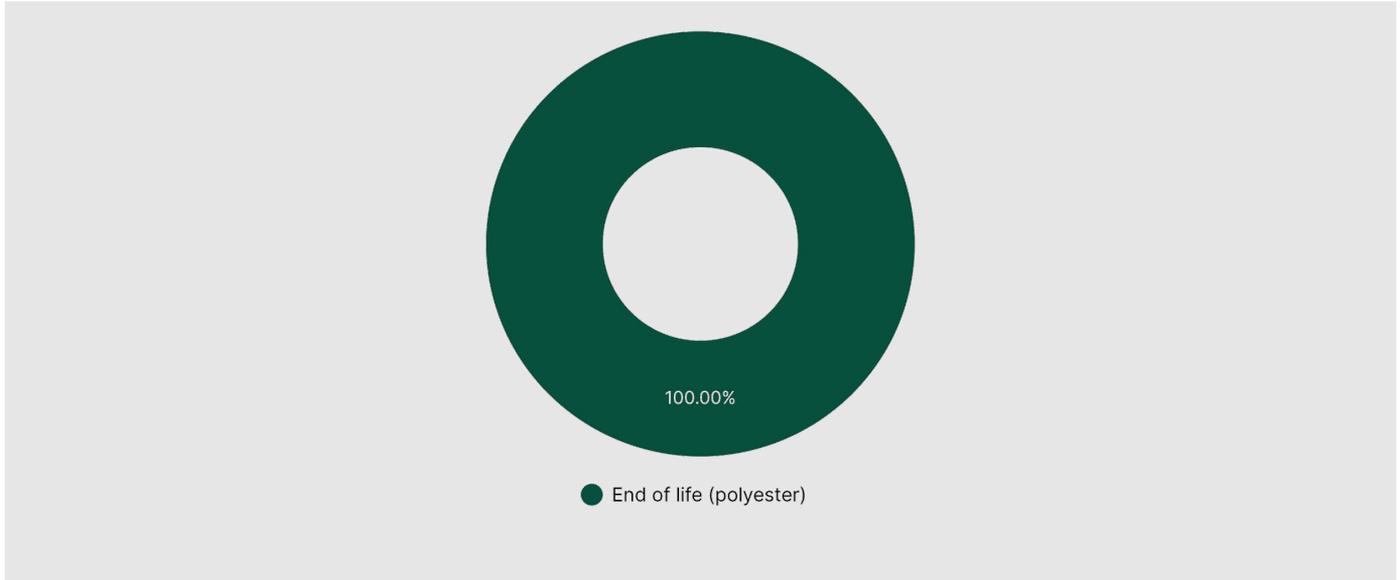
# Climate Change - Transportation and Distribution



Activity	Emission Factor Num	Quantity	Impact (g CO <sub>2</sub> eq)	Percentage (%)
Freight	3	0.28	53.09	100.00 %
TOTAL			53.09	100.00 %

8.186.697 (sold in SE)

# Climate Change - End-of-Life Treatment



Activity	Emission Factor Num	Quantity	Impact (g CO <sub>2</sub> eq)	Percentage (%)
End of life (polyester)	4	0.28	271.88	100.00 %
TOTAL			271.88	100.00 %

# Contact us

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[www.greenly.earth](http://www.greenly.earth)