

**greenly**

2025-09-13

Lyreco LCA

# Life Cycle Assessment

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

8.186.711 (sold in FI)

# 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**

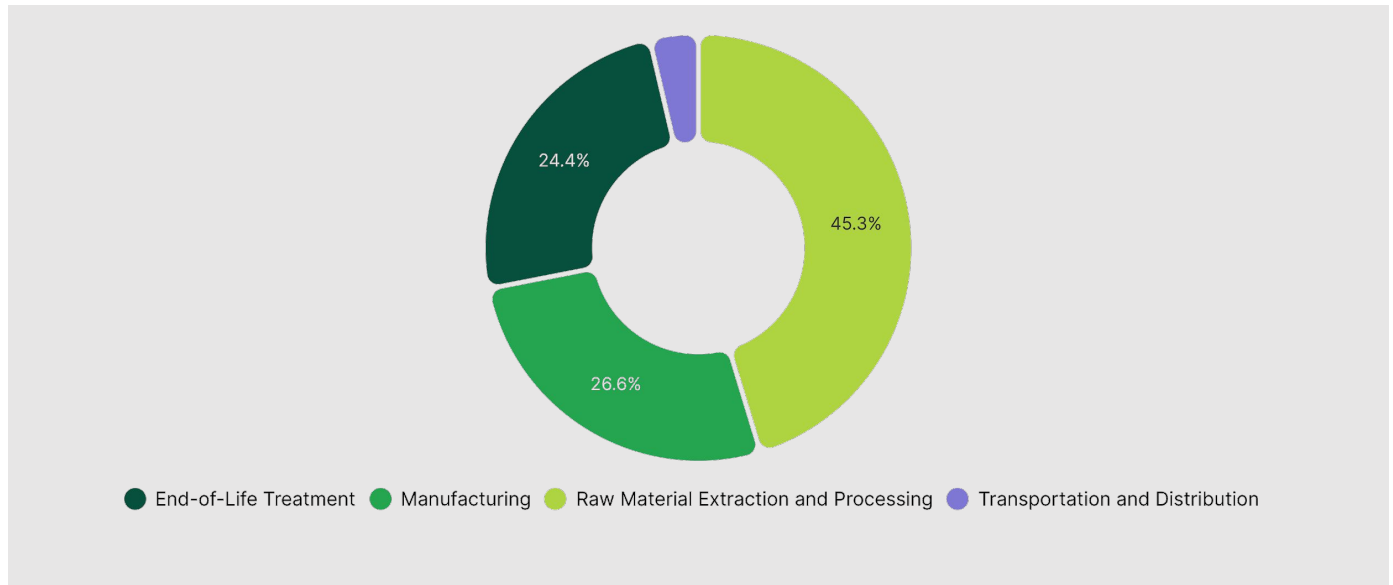
**Exclusions**

# 02

## Results

8.186.711 (sold in FI)

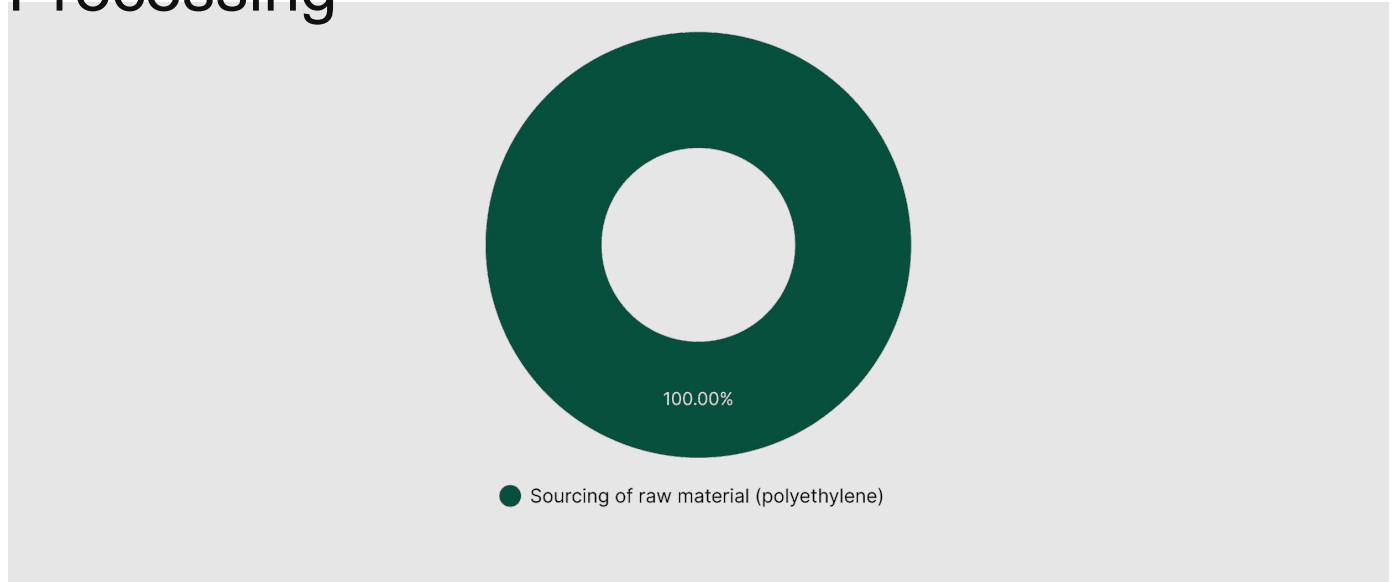
# Climate Change



Step	Impact (kg CO <sub>2</sub> eq)	Percentage (%)
Raw Material Extraction and Processing	0.72	45.30 %
Manufacturing	0.42	26.64 %
End-of-Life Treatment	0.39	24.41 %
Transportation and Distribution	0.06	3.65 %
<b>TOTAL</b>	<b>1.59</b>	<b>100.00 %</b>

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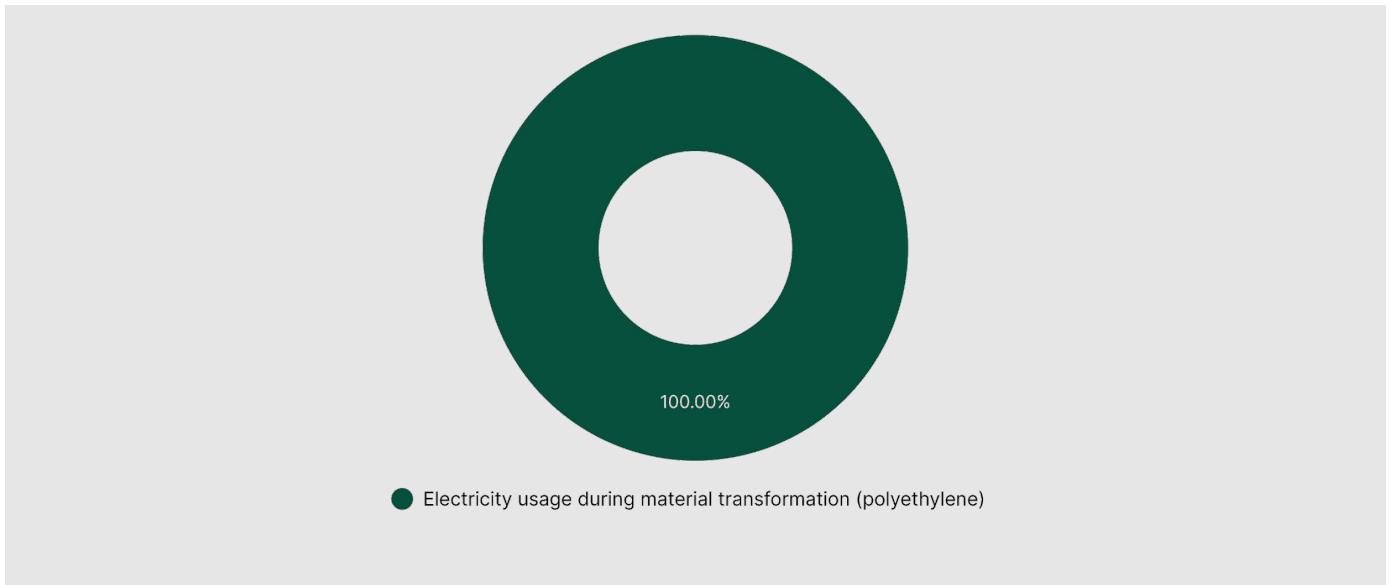
# Climate Change - Raw Material Extraction and Processing



Activity	Emission Factor Num	Quantity	Impact (g CO <sub>2</sub> eq)	Percentage (%)
Sourcing of raw material (polyethylene)	1	0.32	721.85	100.00 %
TOTAL			721.85	100.00 %

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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 (polyethylene)	2	0.59	424.44	100.00 %
TOTAL			424.44	100.00 %

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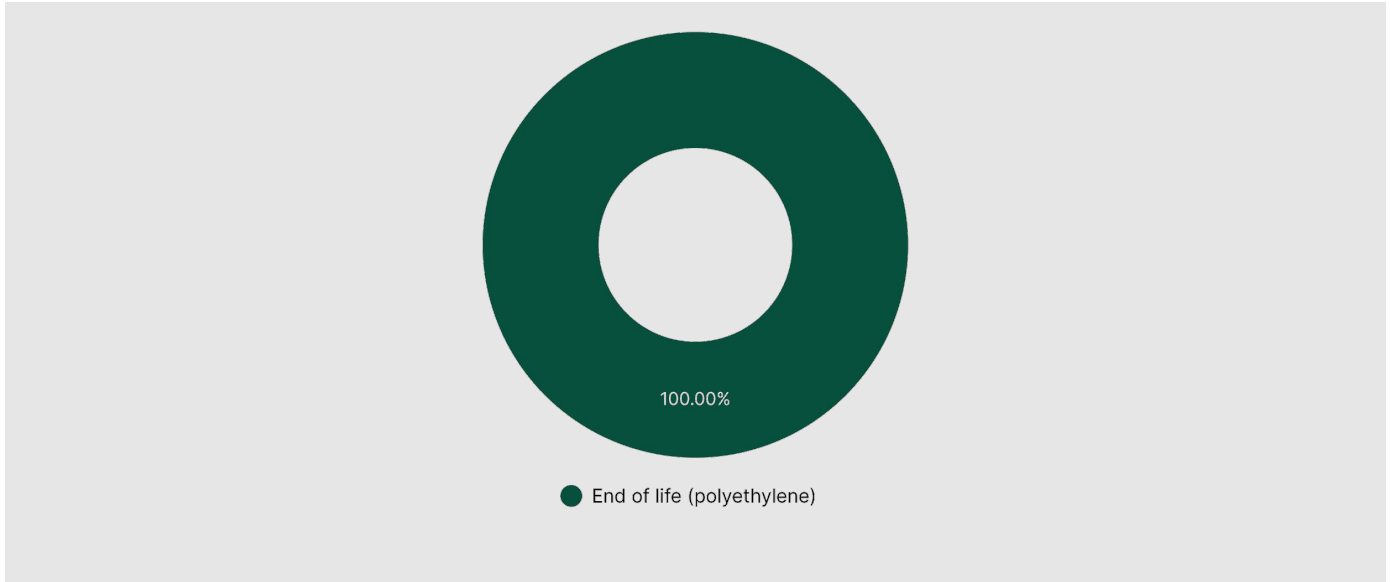
# Climate Change - Transportation and Distribution



Activity	Emission Factor Num	Quantity	Impact (g CO <sub>2</sub> eq)	Percentage (%)
Freight	3	0.29	58.23	100.00 %
TOTAL			58.23	100.00 %

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# Climate Change - End-of-Life Treatment



Activity	Emission Factor Num	Quantity	Impact (g CO <sub>2</sub> eq)	Percentage (%)
End of life (polyethylene)	4	0.29	388.96	100.00 %
TOTAL			388.96	100.00 %

# Contact us

Alexis Normand CEO

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