

greenly

2025-09-15

Lyreco LCA

Life Cycle Assessment

The methodology in this report is based on ISO 14040

5.995.419 (sold in SE)

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

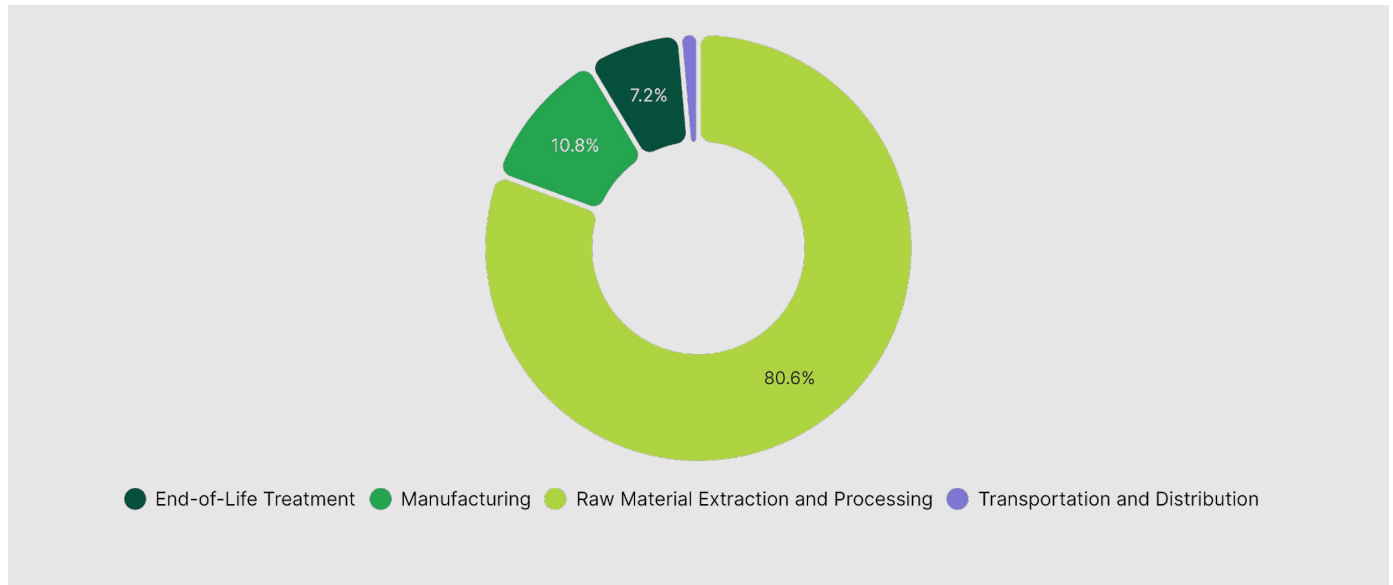
Exclusions

02

Results

5.995.419 (sold in SE)

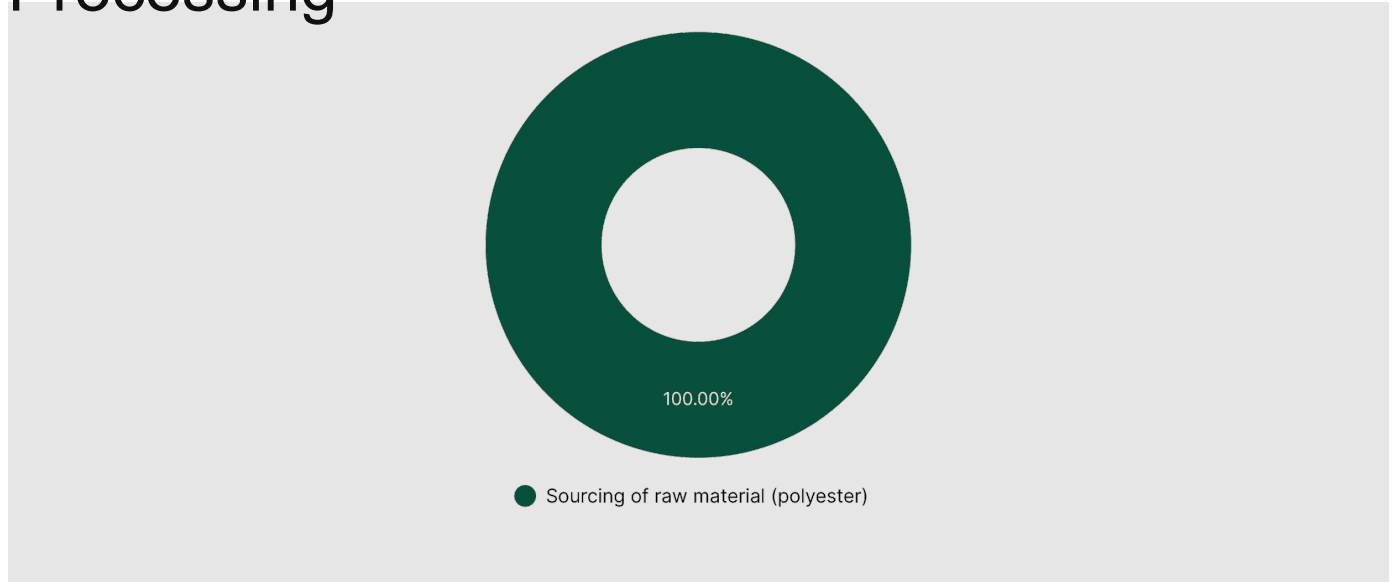
Climate Change



| Step | Impact (kg CO ₂ eq) | Percentage (%) |
|--|--------------------------------|-----------------|
| Raw Material Extraction and Processing | 2.16 | 80.61 % |
| Manufacturing | 0.29 | 10.79 % |
| End-of-Life Treatment | 0.19 | 7.20 % |
| Transportation and Distribution | 0.04 | 1.41 % |
| TOTAL | 2.68 | 100.00 % |

5.995.419 (sold in SE)

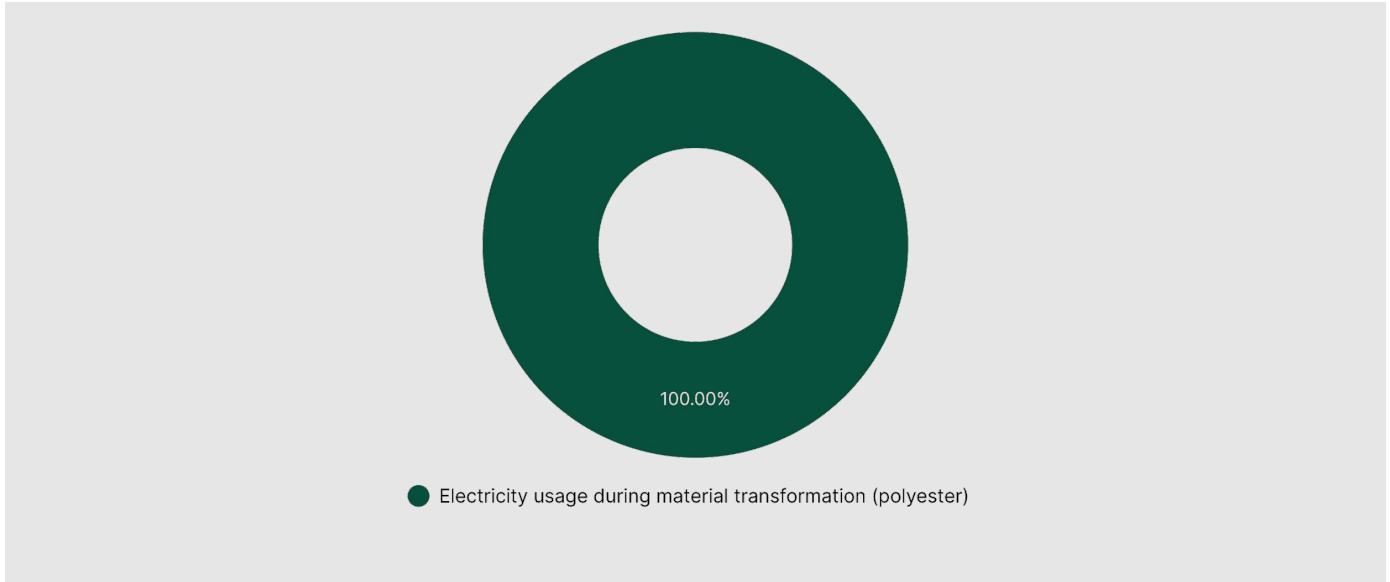
Climate Change - Raw Material Extraction and Processing



| Activity | Emission Factor Num | Quantity | Impact (kg CO ₂ eq) | Percentage (%) |
|--------------------------------------|---------------------|----------|--------------------------------|----------------|
| Sourcing of raw material (polyester) | 1 | 0.22 | 2.16 | 100.00 % |
| | | | | |
| | | | | |
| | | | | |
| TOTAL | | | 2.16 | 100.00 % |

5.995.419 (sold in SE)

Climate Change - Manufacturing



| Activity | Emission Factor Num | Quantity | Impact (g CO ₂ eq) | Percentage (%) |
|--|---------------------|----------|-------------------------------|----------------|
| Electricity usage during material transformation (polyester) | 2 | 0.4 | 289.36 | 100.00 % |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| TOTAL | | | 289.36 | 100.00 % |

5.995.419 (sold in SE)

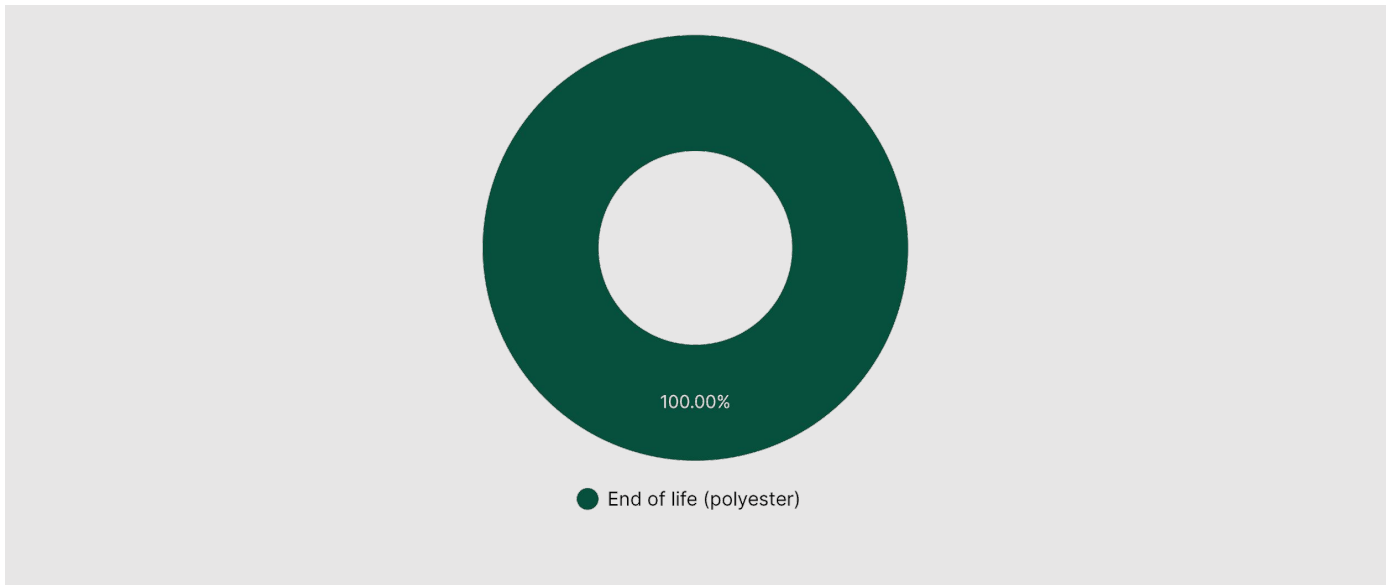
Climate Change - Transportation and Distribution



| Activity | Emission Factor Num | Quantity | Impact (g CO ₂ eq) | Percentage (%) |
|----------|---------------------|----------|-------------------------------|----------------|
| Freight | 3 | 0.2 | 37.7 | 100.00 % |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| TOTAL | | | 37.7 | 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 | 0.2 | 193.07 | 100.00 % |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| TOTAL | | | 193.07 | 100.00 % |

Contact us

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