

**greenly**

2025-09-18

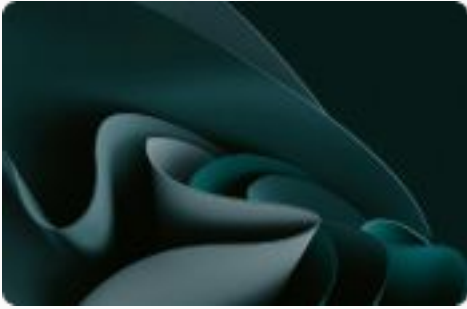
Lyreco LCA

# Life Cycle Assessment

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

2200881 (sold in WI)

# 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 "10 page(s) of A4 paper for writing".</p>
<p><b>Impact Indicator</b></p>	<p>The impact is measured through the "IPCC 2013 GWP 100a" 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

The scope of this research includes the complete lifecycle of a piece of paper from raw material extraction to disposal options for each material, which is the cradle-to-grave perspective.

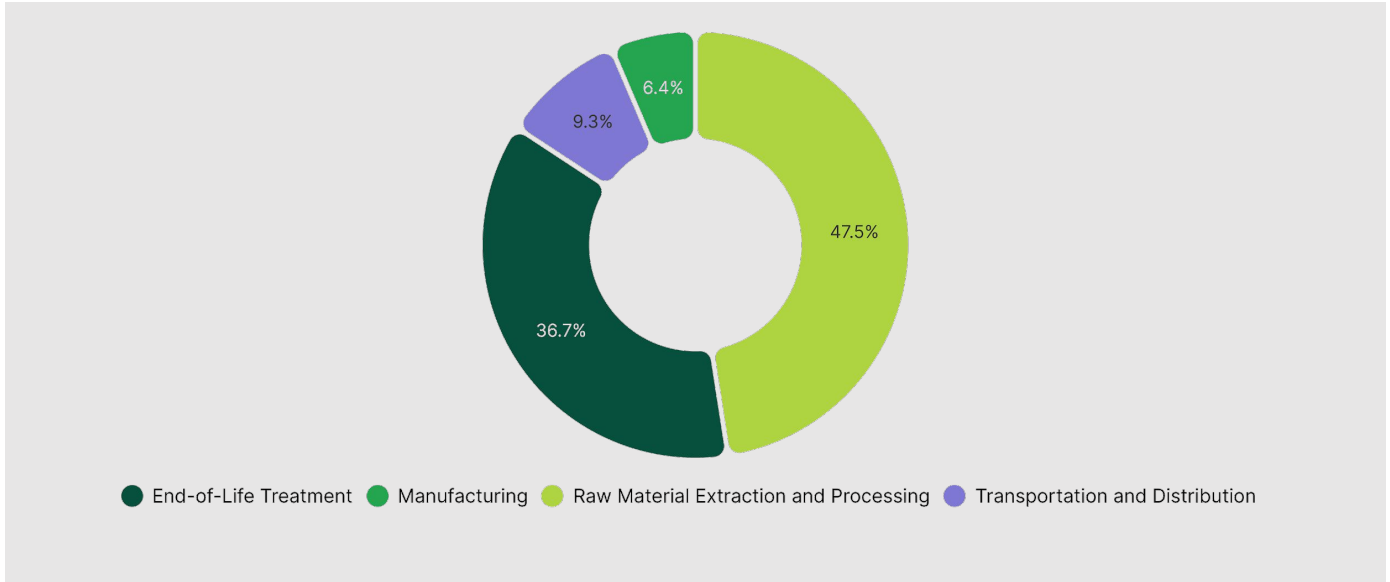
## Exclusions

The impact of secondary packaging impact and writing utensils are excluded from this assessment.

# 02

## Results

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**Climate Change**



Step	Impact (kg CO <sub>2</sub> eq)	Percentage (%)
Raw Material Extraction and Processing	1.24	47.55 %
End-of-Life Treatment	0.96	36.71 %
Transportation and Distribution	0.24	9.31 %
Manufacturing	0.17	6.44 %
TOTAL	2.61	100.00 %



2200881 (sold in WI)

# Climate Change - Manufacturing



Activity	Emission Factor Num	Quantity	Impact (g CO <sub>2</sub> eq)	Percentage (%)
Natural gas usage during material transformation (bleached kraft paper)	3	0.47	85.89	51.03 %
Electricity usage during material transformation (bleached kraft paper)	2	0.88	82.43	48.97 %
TOTAL			168.32	100.00 %





# Contact us

Alexis Normand CEO

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